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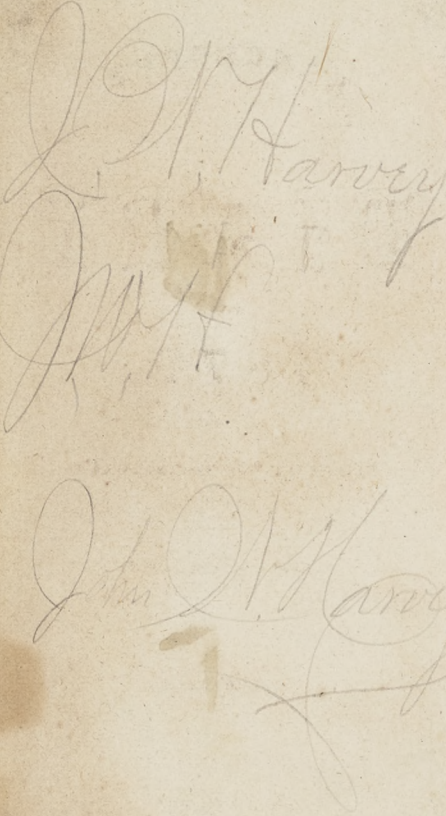

BANCROFT'S

DIARY

FOR

1872,

CONTAINING

Useful Memoranda,

AND

TABLES FOR REFERENCE.

Published Annually.

SAN FRANCISCO:
A. L. BANCROFT & COMPANY,
BOOKSELLERS & STATIONERS,
721 MARKET STREET.
MDCCCLXXII.

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Entered according to Act of Congress, A. D. 1871,
BY A. L. BANCROFT & COMPANY,
In the office of the Librarian of Congress, at Washington.

Calendar,

1872.

	S	M	T	W	T	F	S
JAN.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
FEB.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	..	..
MAR.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
APR.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	..	..	..	..
MAY	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
JUNE	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	..	..	..	..	..	..

	S	M	T	W	T	F	S
JULY	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
AUG.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
SEP.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	..	..	..	..	..
OCT.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
NOV.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	..	..	..	..	..	..	..
DEC.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..

THE LENGTH OF DAYS.

At San Francisco the longest day has $14\frac{3}{4}$ hours; at Boston, $15\frac{1}{4}$; at Berlin and London, $16\frac{1}{2}$; at Stockholm and Upsal, $16\frac{1}{2}$; at Hamburg, Dantzic, and Stettin, 17, and the shortest 7. At St. Petersburg and Tobolsk the longest day has 19, and the shortest 5 hours. At Bornea, in Finland, the longest day has $21\frac{1}{2}$, and the shortest $2\frac{1}{2}$ hours. At Wanderbus, in Norway, the day lasts from the 21st of May to the 22d of July, without interruption; and at Spitzbergen, the longest day is $3\frac{1}{2}$ months.

FESTIVALS AND FASTS OF THE CHURCH.

Dates *italicized* apply only to 1872.

EPIPHANY is twelve days after Christmas, January 6th.

SHROVE SUNDAY, the first Sunday before Shrove Tuesday. — *February* 11*th*.

SHROVE TUESDAY is the first Tuesday after the first change of the moon in February. — *February* 13*th*.

ASH WEDNESDAY, the day after Shrove Tuesday. — *February* 14*th*.

The Fast of LENT is from Ash Wednesday to the feast of Easter, forty days.

The FIRST SUNDAY IN LENT is *February* 18*th*.

ST. PATRICK. — March 17th.

MIDLENT is the fourth Sunday from Shrove Tuesday. — *March* 10*th*.

CARLE SUNDAY, the fifth Sunday from Shrove Tuesday. — *March* 17*th*.

PALM SUNDAY, the 6th Sunday from Shrove Tuesday. — *March* 24*th*.

PASSION WEEK, the week after Palm Sunday. — *March* 24*th to March* 31*st*.

GOOD FRIDAY, the Friday in Passion Week. — *March* 29*th*.

EASTER DAY, the festival appointed in commemoration of Christ's Resurrection, is the seventh Sunday after Shrove Tuesday, or the first after the full moon, which happens on or after the 21st of March. — *March* 31*st*.

LOW SUNDAY is the first after Easter. — *April* 7*th*.

ROGATION SUNDAY is the fifth after Easter. — *May* 5*th*.

ASCENSION DAY, or HOLY THURSDAY, is the Thursday in Rogation Week, the fortieth day from Easter. — *May* 9*th*.

PENTECOST, or WHITSUNTIDE, is the forty-ninth day, or seventh Sunday after Easter. — *May* 19*th*.

TRINITY SUNDAY is the next after Pentecost. — *May* 26*th*.

ST. JOHN BAPTIST'S DAY. — June 24th.

ST. PETER. — June 29th.

ST. MICHAEL. — September 29th.

ALL SAINTS' DAY. — November 1st.

ADVENT SUNDAY, the nearest Sunday to the feast of St. Andrew. — *December* 1*st*.

ST. ANDREW. — November 30th.

ST. THOMAS. — December 21st.

CHRISTMAS. — December 25th.

ST. STEPHEN. — December 26th.

ST. JOHN, EVANGELIST. — December 27th.

HEBREW CALENDAR.

5632-5633.

[Prepared by Rev. J. Frankel.]

COMMENCEMENT OF THE YEAR { 5632, SEPTEMBER 16–17, 1871. / 5633, OCTOBER 3–4, 1872.

NEW MOONS.	FASTS AND FEASTS.	DATES.
5632.		1872.
Shebat		Tues., Jan. 11.
Adar the First		Fri. & Sat., Feb. 10–11.
Adar the First, 14.	Purim Katan	Fri., Feb. 23.
Adar the Second		Sun. & Mon., March 10–11.
Adar the Second, 11.	Fast of Esther	Th., March 21.
Adar the Second, 14–15.	Purim	Sun. & Mon., March 24–25.
Neson		Tu., April 9.
Neson, 15–22.	Pesach	Sun. to Sun., April 23–30.
Iyar		We. & Th., May 8–9.
Iyar, 18.	Lag Baomer	Sun., May 26.
Sivan		Fri., June 7.
Sivan, 6–7.	Shebuoth	We. & Th., June 12–13.
Tammooz		Sat. & Sun., July 6–7.
Tammooz, 17.	Fast	Tu., July 23.
Ab		Mon., Aug. 5.
Ab, 9.	Tishabeab — Fast	Tu., Aug. 13.
Ab, 15.	Half Festival	Mon., Aug. 19.
Ellool		Tu. & We., Sept. 3–4.
5633.		
Tishree, 1–2.	New Year	Th. & Fri., Oct. 3–4.
Tishree, 4.	Fast of Gedaliah	Sun., Oct. 6.
Tishree, 10.	Yom-Kippur — Fast	Sat., Oct. 12.
Tishree, 15–16.	Succoth—Tabernacles	Th. & Fri. Oct. 17–18.
Tishree, 21.	Hoshaanah Rabbah	Wed., Oct. 23.
Tishree, 22.	Shemeenee Atzaroth	Th., Oct. 24.
Tishree, 23.	Simchath Torah	Fri., Oct. 25.
Heshvon		Fri. & Sat., Nov. 1–2.
Kislev		Sun., Dec. 1.
Kislev, 25.	Hanucha, (first day),	We., Dec. 25.
Tebeth,		Mon. & Tu., Dec. 30–31.

LOCATIONS
OF
Public Offices and Buildings
IN
SAN FRANCISCO.

ACADEMY OF NATURAL SCIENCES, 622 Clay street.

ALMADEN QUICKSILVER CO., Office, 205 Battery street.

ARMY HEADQUARTERS, 417 Kearney, 509 Kearney, 204 Sutter S. W. cor. Market and Third sts.

ASSAY OFFICES:

California Assay Office, 512 California st.

Louis Falkenau, State Assayer, 421 Montgomery street.

Henry G. Hanks, 649 Clay street.

Hentsch & Berton, cor. Clay and Leidesdorff streets.

Leopold Kuh, 611 Commercial street.

Morris & White, 30 Fremont street.

J. S. Phillips, 423 Washington street.

F. Reichling & Co., 334 Montgomery street.

Riehn, Hemme & Co., 404 Montgomery street.

S. F. Assaying and Refining Works, 416 Montgomery st.

W. L. Strong & Co., 10 Stevenson street.

B. B. Thayer, 1 New Montgomery street.

ASYLUMS:

Protestant Orphan, near Market street R. R.

Roman Catholic Orphan, Market st., bet. Second and Third.

Magdalen, San Bruno Road.

BANCROFT'S BOOK & STATIONERY MERCANTILE AND MANUFACTURING ESTABLISHMENT, 721 Market street.

BANKS AND BANKERS:

Bank of British Columbia, cor. California and Sansome streets.

Bank of British North America, N. E. cor. California and Sansome sts.

Bank of California, cor. California and Sansome sts.

Belloc Freres, 524 Montgomery street.

A. Borel & Co., cor. Montgomery and Jackson sts.

California Trust Co., 421 California street.

B. Davidson & Co., N. W. cor. Montgomery and Commercial streets.

Donohoe, Kelly & Co., S.E. cor. Montgomery and Sacramento streets.

BANKS, (*continued.*)

First National Bank, (Gold,) cor. Montgomery and Sacramento streets.

Hentsch & Berton, cor. Clay and Leidesdorff streets.

London and San Francisco Bank, 423 California st.

Pacific Bank, N. W. cor. Sansome and Pine sts.

Sather & Co., N.E. c. Montgomery and Commercial sts.

J. Seligman & Co., 412 California street.

Shepherd & Finnie, N. E. cor. California and Sansome.

John Sime & Co., N.W. cor. Montgomery and Clay sts.

Tallant & Co., 321 Battery street.

Wells, Fargo & Co., N.W. c. Montgomery and California streets.

BIBLE DEPOSITORY, 757 Market street.

BOARD OF BROKERS, San Francisco Stock and Exchange, 411 California street.

BOARD OF EDUCATION, 22 City Hall, 2nd floor, op. the Plaza.

BOARD OF SUPERVISORS, Room 3 City Hall, op. the Plaza.

CALIFORNIA STEAM NAVIGATION CO., N. E. cor. Front and Jackson streets.

CHAMBER OF COMMERCE, New Merchants' Exchange, cor. California and Leidesdorff sts.

CHINA AND JAPAN STEAMERS, cor. First and Bryant sts.

CHURCHES :

Baptist, First, north side Washington street, near Stockton.

Baptist, Second, west side Russ st., bet. Howard and Folsom.

Baptist, Third, (colored), east side Powell st., bet. Bush and Sutter.

Baptist, Tabernacle, Post street, near Larkin.

Baptist, Union Square, Post street, near Powell.

Baptist, Fifth, Twenty-second st., near Howard.

Chinese Mission House, N. E. cor. Sacramento and Stockton streets.

Congregationalist, First, cor. Mason and Post streets.

Congregationalist, Second, Taylor street, near Geary.

Congregationalist, Third, Fifteenth street, near Mission.

Congregationalist, Fourth, S. side Green, near Stockton street.

Disciples, Church of Christ, 318 Post street.

Episcopal, Grace, S.E. cor. California and Stockton sts.

Episcopal, Trinity, N. E. cor. Post and Powell sts.

Episcopal, St. John's, cor. Fifteenth and Valencia sts.

Episcopal, Advent, Howard st., bet. Second and Third.

Episcopal, St. James', Post street, near Mason.

Episcopal, St. Luke's, Pacific st., near Polk.

CHURCHES, (*continued.*)

Hebrew, Emanu El, Sutter, b. Stockton and Powell sts.

Hebrew, Sherith Israel, east side Stockton street, bet. Broadway and Vallejo street.

Hebrew, Ohabai Shalome, Mason, bet. Geary and Post streets.

Hebrew, Beth Israel, Sutter street, near Stockton.

Lutheran, First, German, Mission street, bet. Second and Third.

Lutheran, St. Paul's, German, Mission st., bet. Fifth and Sixth.

Lutheran, St. Mark's, German, south side of Geary street, bet. Stockton and Powell.

Mariner's Church, cor. Sacramento and Drumm sts.

Methodist Episcopal, Powell Street, west side Powell street, bet. Washington and Jackson.

Methodist, Howard Street, Howard street, bet. Second and Third.

Methodist, Central, Mission st., bet. Sixth and Seventh.

Methodist, Mission Street, Mission st., bet. Eighteenth and Nineteenth.

Methodist, Seaman's Bethel, Mission street, bet. First and Second sts.

Methodist, Minna St., Minna st., bet. Fourth and Fifth.

Methodist, Kentucky St., on the Potrero, n. L. Bridge.

Methodist, Bernal Wesleyan, Prospect Avenue, Bernal Heights.

Methodist, South San Francisco, on Fifteenth avenue, S. S. F.

Methodist, German, Folsom st., bet. Fourth and Fifth.

Methodist, German, north side Broadway, bet. Stockton and Powell sts.

Methodist, African (colored), west side Powell, bet. Jackson and Pacific streets.

Methodist, Zion Wesleyan, (colored), Stockton st., near Sacramento.

Presbyterian, First, Stockton street, near Clay.

Presbyterian, Calvary, cor. Geary and Powell sts.

Presbyterian, Howard, S. side Mission st., near Third.

Presbyterian, Larkin Street, c. Larkin and Pacific sts.

Presbyterian, Central, Tyler st., near Taylor.

Presbyterian, Emanuel, corner Folsom and Sherman streets.

Presbyterian, Westminster, Fell street, b. Octavia and Laguna.

CHURCHES, (*continued.*)

Presbyterian, United, Mason st., near Geary.

Reformed Protestant, Excelsior Hall, 711 Mission st.

Roman Catholic, St. Mary's Cathedral, N. E. cor. California and Dupont sts.

Roman Catholic, St. Francis, Vallejo street, b. Dupont and Stockton sts.

Roman Catholic, St. Patrick's, south side Market, bet. Second and Third streets.

Roman Catholic, St. Boniface, (German,) north side Sutter, bet. Montgomery and Kearney streets.

Roman Catholic, St. Ignatius, Market, bet. Fourth and Fifth streets.

Roman Catholic, Notre Dame, (French), Bush, between Dupont and Stockton streets.

Roman Catholic, Mission Dolores, S.W. cor. Sixteenth and Dolores sts.

Roman Catholic, St. Joseph's, Tenth street, bet. Folsom and Howard sts.

Roman Catholic, St. Rose's, Brannan st., near Fourth.

Roman Catholic, St. Bridget's, S.W. cor. Van Ness Avenue and Broadway.

St. Peter's, Columbia street, near Twenty-fourth.

Spiritualists, Mechanics' Institute Hall, 29 Post st.

Swedenborgian, New Jerusalem, O'Farrell street, bet. Mason and Taylor.

Unitarian, First, Geary street, near Stockton.

CITY HALL, Kearney street, opposite the Plaza.

COAST SURVEY, Custom House, 3d floor, N. W. cor. Battery and Washington sts.

COMMISSIONER OF IMMIGRATION, 314 Washington street.

COURTS: Federal, U. S. Court Building, N. E. cor. Washington and Battery sts.

District, County, and Probate, City Hall, op. the Plaza.

Justices of the Peace, N. E. cor. Jackson and Montgomery sts., 2d floor.

CUSTOM HOUSE, N.W. cor. Battery and Washington streets.

DASHAWAY HALL, Post street, near Dupont.

EXPRESSES:

Alameda and Contra-Costa, (Bamber & Co.) S. W. cor. Jackson and Davis streets.

Half Moon Bay and Pescadero, and San Jose, Kennedy, Long & Co., 679 Market street.

S. F. Package, General Office, 315 Montgomery st.

San Rafael, W. L. Barnard, S. E. cor. Washington and Sansom sts.

EXPRESSES, (*continued.*)

Wells, Fargo & Co., N. W. cor. California and Montgomery sts.

GAS COMPANY:

San Francisco, Office, S. E. cor. First and Natoma sts.

HARBOR COMMISSIONERS, 414 Montgomery street.

HOSPITALS AND BENEVOLENT SOCIETIES:

Alms House, near Lake Honda.

British, 730 Montgomery street.

County, S.W. cor. Francisco and Stockton streets.

French Mutual Benevolent Society, 808 Montgomery st.

German, 732 Washington street.

Italian, 430 Jackson street.

Marine, Rincon Point, cor. Mission and Fifteenth sts.

San Francisco Female, 917 Clay street, cor. Prospect pl.

S. F. Lying-in Hospital and Foundling Asylum, 269 Jessie street.

St. Mary's Sisters of Mercy, cor. Bryant and First sts.

INDIAN AGENT, 224 Kearney street.

INDUSTRIAL SCHOOL, Office, City Hall, No. 9, third floor.

INTERNAL REVENUE:

Assessor, 419 California; Collector, 415 California; Guagers, 321 Front; Supervisor, S. E. cor. California and Sansome streets.

LADIES' PROTECTION AND RELIEF SOCIETY, Franklin Avenue, between Post and Geary streets.

LAND OFFICE, 506 Jackson street.

LIBRARIES:

Mercantile, N. side Bush street, near Montgomery.

Odd Fellows, 327 Montgomery, near California street.

Mechanics' Institute, 27 Post st.

San Francisco Law Library, 16 Exchange Building, N. E. cor Montgomery and Washington sts.

MARSHAL, U. S., 13 and 14 U. S. Court Building, N. E. cor. Washington and Battery streets.

MASONIC HALL, cor. Montgomery and Post streets.

MECHANICS' INSTITUTE, 27 Post street.

MERCHANTS' EXCHANGE, south side California street, near Montgomery.

MEXICAN STEAMSHIP LINE, Office, 217 Sansome street.

MINT, U. S. Branch, north side Commercial street, near Montgomery.

NEWSPAPER AND PERIODICAL OFFICES:

Abend Post, (German, daily,) 521 Clay street.

Advocate, (Methodist, weekly), 711 Mission street.

NEWSPAPER AND PERIODICAL OFFICES, (*continued.*)

Alaska Herald, 611 Clay street.
Alta California, (daily,) 529 California street.
Bancroft's Guide for Travellers in the Pacific States and Territories, 721 Market street.
California Demokrat, (German, daily,) N. W. cor. Sacramento and Kearney sts.
California Farmer, (weekly,) 320 Clay street.
California Police Gazette, 525 Front street.
California Teacher, (monthly), cor. Pine and Montgomery streets.
Commercial Herald, 409 Washington street.
Commercial Record, 33 New Merchants' Exchange.
Courrier de San Francisco, (French,) 515 Jackson st.
El Tiempo, (Spanish, tri-weekly,) 411 Clay street.
Elevator, (colored, weekly,) 622 Battery street.
Evangel, (Baptist, weekly,) 608 Market street.
Evening Bulletin, (daily,) 622 Montgomery street.
Examiner, (daily,) 535 Washington street.
Figaro, (daily,) 532 Merchant street.
Golden City, (weekly,) 636 Sacramento street.
Golden Era, (weekly,) 543 Clay street.
Guide, 540 Clay street.
Hebrew, (weekly,) 420 Montgomery street.
Hebrew Observer, (weekly,) 502 Montgomery street.
Irish News, (weekly,) 432 Montgomery street.
L'Alouette, (French), 621 Sansom street.
La Voce del Popolo, (Italian,) 629 Washington street.
La Voz Nuevo Mondo, 728 Montgomery street.
L' Eco Della Patria, (Italian, semi-weekly,) 639 Washington street.
Le National, (French, weekly,) cor. Sansome and Jackson streets.
Masonic Mirror, (weekly,) 608 Market street.
Mining and Scientific Press, (weekly,) 414 Clay street.
Monitor, (Catholic, weekly.) 622 Clay street.
Morning Call, (daily,) 523 Montgomery street.
New Age. (I. O. O. F., weekly,) 325 Montgomery street.
Occident, (Presbyterian, weekly,) S. E. cor. Sacramento and Sansome streets.
Overland Monthly, 409 Washington street.
Pacific, (Congregationalist, weekly,) 409 Washington street.
Pacific Appeal, (colored, weekly,) 541 Merchant street.
Pacific Churchman, (Episcopal, weekly,) 536 Market st.

NEWSPAPER AND PERIODICAL OFFICES, (*continued.*)

Pacific Medical and Surgical Journal, (monthly,) 26 Montgomery street.

Pioneer, (weekly,) 420 Montgomery street.

Real Estate Circular, (monthly,) 410 California street.

San Francisco Chronicle, 504 Montgomery street.

San Francisco News Letter, 623 Montgomery street.

Spare Hour, (weekly,) 414 Clay street.

Spectator, (Methodist, weekly,) 710 Washington street.

Spirit of the Times, (weekly,) cor. Sansom and Jackson streets.

Transcript of Records, (daily,) 317 California street.

ODD FELLOWS HALL, S.W. c. Montgomery and California sts.

OLYMPIC CLUB, Rooms, 35 Sutter street. near Montgomery.

OREGON STEAMSHIP LINE, Office, 217 Sansome street.

PACIFIC MAIL STEAMSHIP COMPANY, cor. First and Bryant streets.

PIONEER HALL, 808 Montgomery street, cor. Gold.

POLICE OFFICE, City Hall, opposite the Plaza.

POST OFFICE, Custom House, cor. Battery and Washington streets.

RAILROAD COMPANIES:

California Pacific, corner Front and Vallejo streets; Office, 411 California street.

Central Pacific, cor. Davis and Pacific; Office, 415 California street.

S. F., San Jose and Gilroy, N. E. cor. Montgomery and Market streets.

RECORDER'S OFFICE, City Hall.

REGISTRAR IN BANKRUPTCY, 10 Court Block, 636 Clay street.

SAVINGS BANKS:

Cosmopolitan Savings and Exchange Bank, 626 Montgomery st.

Farmers' and Mechanics' Bank of Savings, 225 Sansom street.

French Savings and Loan Mutual, 411 Bush st.

Germania Savings and Loan, 513 California street.

Hibernia Savings and Loan, N.E. cor. Montgomery and Market streets.

Humboldt Savings and Loan, 16 Geary street.

Improved Order of Red Men's Savings and Loan, 344 Bush street.

Masonic Savings and Loan, 6 Post street.

Odd Fellows' Savings and Loan, S.W. cor. Montgomery and California sts.

SAVINGS BANKS, (*continued.*)

San Francisco Savings Union, 532 California street.

Savings and Loan Society, 619 Clay street.

STEAMBOAT LANDINGS, Broadway Street Wharf.

STEAMER (Ocean) LANDINGS, cor. First and Bryant streets.

STREET RAILWAYS :

Central, (Davis, Bush, Turk, and Sixth,) Office, 116 Taylor st., near Turk.

City, (New Montgomery and Mission,) S. W. corner Mission and Fourteenth sts.

Front Street, Mission, and Ocean, corner Bush and Polk streets.

Market Street, N. E. cor. Market and Montgomery sts.

North Beach and Mission, Fourth street, near Bryant, cor. Louisa.

Omnibus, 721 Howard street, bet. Third and Fourth.

Potrero and Bay View, cor. Fourth and Berry streets.

SURVEYOR GENERAL'S OFFICE, U. S., N. W. cor. Pine and Sansome streets.

TELEGRAPH OFFICES :

Western Union, 522 California street.

Atlantic and Pacific, 415 California street.

UNION HALL, Howard street, near Third.

UNITED STATES SUB-TREASURY, 428 Montgomery street.

WATER WORKS, Spring Valley, 516 California street.

YOUNG MEN'S CHRISTIAN ASSOCIATION, North side Sutter st., bet. Kearney and Dupont.

DIVISIONS OF TIME.

A SOLAR DAY is measured by the rotation of the earth upon its axis, and is of different lengths, owing to the ellipticity of the earth's orbit and other causes ; but a mean solar day, recorded by the time-piece, is twenty-four hours long. An ASTRONOMICAL DAY commences at noon, and is counted from the first to the twenty-fourth hour. A CIVIL DAY commences at midnight, and is counted from the first to the twelfth hour, when it is recounted again from the first to the twelfth hour. A NAUTICAL DAY is counted as a civil day, but commences like an Astronomical Day, from noon.

A CALENDAR MONTH varies in length from 28 to 31 days. A MEAN LUNAR MONTH is 29 days, 12 hours, 44 minutes, 2 seconds, and 5.24 thirds.

A YEAR is divided into 365 days. A SOLAR YEAR, which is the time occupied by the Sun in passing from one Vernal Equinox to another, consists of 365.24244 solar days, or 365 days, 5 hours, 48 minutes, and 49.536 seconds. A JULIAN YEAR is 365 days. A GREGORIAN YEAR is 365.2425 days. Every fourth year is BISSEXTILE, or LEAP YEAR, and is 366 days.

SAN FRANCISCO
FIRE ALARM STATIONS.

FIRE ALARM BOXES are located at the corners of the following streets:

1. Stockton and Francisco
2. Mason and Lombard.
3. Stockton and Greenw'h.
4. Sansome and Greenw'h.
5. Battery and Union.
6. Montgomery and Green.
7. Kearney and Union.
8. Powell and Union.
9. Dupont and Vallejo.
12. California and Kearney.
13. Front and Broadway.
14. Stockton and Broadw'y.
15. Clay and East.
16. Pacific and Mason.
17. Pacific and Kearney.
18. Sansome and Jackson.
19. Washington and Davis.
21. City Hall.
23. Clay and Taylor.
24. Clay and Powell.
25. Washington & Dupont.
26. Clay and Battery.
27. Montgomery and Commercial.
28. Pine and Dupont.
29. Stockton and California.
31. California, n. Sansome.
32. California and Drumm.
34. Mission and Stewart.
35. Montgomery and Pine.
36. Folsom and Stewart.
37. Battery and Bush.
38. Market and Second.
39. Howard and Spear.
41. Sutter, near Jones.
42. Geary and Mason.
43. O'Farrell, near Dupont.
45. O'Farrell and Jones.
46. Kearney and Sutter.
47. Market and Powell
48. Market and Kearney.
49. Stockton and Sutter.
51. Folsom and Beale.
52. Mission and Fremont.
53. Townsend and Third.
54. Engine House, No. 4, Second st.
56. Bryant, west of First.
57. Brannan and Second.
58. Folsom and First.
59. P. M. S. S. Co.'s wharf, foot of Second.
61. Howard and Third.
62. Mission and Fourth.
63. Harrison and Fourth.
64. Howard and Fifth.
65. Mission and Sixth.
67. Harrison & Hawthorne.
68. Brannan and Fourth.
69. Bryant and Third.
71. Mission and Eleventh.
72. Mission and Thirteenth.
73. Howard and Eighth.
74. Engine No. 7, Sixteenth.
75. Market, opp. Seventh.
76. Market and Hayes.
78. Folsom and Ninth.
79. Folsom and Twelfth.
81. Franklin and Hayes.
82. Fulton and Gough.
83. Octavia and Oak.
84. Market and Valencia.
85. Laguna and Hayes.
91. Hyde and Turk.
92. Franklin and Turk.
93. Jones and Turk.
94. Polk and Ellis.
123. Hyde and Union.
124. Pioneer Woolen Mills.
125. Filbert and Jones.
126. Hyde and Washington.
127. Broadway and Polk.
128. Sacramento and Leavenworth.
129. Pacific & Leavenw'th.
132. Pine and Mason.
134. Bush and Hyde.
135. Bush and Polk.
136. Post and Van Ness av.
137. Post and Larkin.
138. California and Larkin.
139. O'Farrell and Hyde.
142. Valencia and Twent'th.
143. Mission and Twenty-second.
145. Folsom and Twenty-second.
146. Folsom and Sixteenth.
147. Howard and Twent'th.
148. Mission and Sixteenth.
149. Folsom and Eight'nth.
152. Brannan and Eighth.
153. Harrison and Seventh.
154. Bryant and Sixth.

156. Fourth and Berry.
157. Folsom, east of Fourth.
158. Folsom, east of Fifth.
159. Engine House, No. 6, Sixth, near Folsom.
162. Pacific and Franklin.
163. Sacramento and Franklin.
164. Clay and Polk.
172. McAllister and Buchanan.
173. Ellis and Buchanan.
174. Turk and Fillmore.
213. Bush and Buchanan.
214. Bush and Steiner.
231. Howard and Twenty-fourth.
234. Harrison and Twenty-fourth.

HACK FARE IN SAN FRANCISCO.

ORDER No. 285, *amending Section* 4 *of Order No.* 43, *regulating Hacks, Cabs, and other Vehicles in Public Streets.*

RATES OF FARE.

For a Hack for one person, not exceeding one mile	$1 50
For a Hack for two or more persons, not exceeding one mile	2 50
For each additional mile, for each passenger	50
For a Cab for one person, not exceeding one mile	1 00
For a Cab for two or more persons, not exceeding one mile	1 50
For each passenger for each additional mile	25
For a Cab for two persons, when engaged by the hour, to be computed for the time occupied in going and returning, including detention, for the first hour	1 50
For each subsequent hour so used	1 00
For a Hack for four or less persons, when engaged by the hour, to be computed for the time occupied in going and returning, including detention, for the first hour	3 00
For each subsequent hour so used	2 00

No extra charge to any passenger shall be made for the ordinary amount of baggage.

SEC. 5 OF ORDER 43.— "From the landing of any steamboat to any point east of the west line of Mason street, and north of the south line of Brannan street east of Third street, shall in all cases be estimated not to exceed one mile."

The penalty for the violation of any of the provisions of the above Order shall not be less than five dollars, nor more than ten dollars for each offence, exclusive of costs.

DISTANCES FROM SAN FRANCISCO

To various points in the vicinity of San Francisco Bay.

NAMES OF PLACES.	MS	CONVEYANCES.	TIME &C.
Fort Point	4	Street Railway	
Lone Mountain	3	" "	
Seal Rock	6	Cars & Omnibus	Two trips a day.
Dry Dock	6	Street Railways	
Ocean House	6	Private Carriage	
San Mateo	20	Railroad	
Crystal Springs	23	Railroad & Stage	Stage from San Mateo.
Half Moon Bay	29	" "	
Redwood City	30	Railroad	
Mountain View	38	"	
Santa Clara	47	"	
San Jose	50	"	
Gilroy	80	"	
Almaden Mines	64	Railroad & Stage	Stage fm. San Jose.
Santa Cruz	78	" "	" " "
" "	80	Steamer	
Oakland	8	Ferry & R. R.	Eight trips a day.
Alameda	11	" "	Five trips a day.
San Leandro	15	" "	
Stockton	90	" "	Two trips a day.
Mission San Jose	30	" "	
Warm Springs	33	" "	
San Pablo	18	Steamer & Stage	Stage f. Pt. Isabel.
Sacramento	90	Steamer & R. R.	R. R. from Vallejo.
Benicia	30	Steamer	Leaves S. F. at 4 P. M., daily.
Sacramento	117	"	
Stockton	117	"	
Martinez	33	"	Ferry fm. Benicia.
Pacheco	38	Steamer & Stage	St'ge f. Martinez.
Diablo Coal Mines	44	" "	Round trip d'ly.
Suisun City	50	Steamer	Tri-weekly.
Suisun	54	Steamer & R. R.	R. R. from Vallejo.
Vallejo & Mare Island	28	Steamer	Daily.
Napa City	50	Steamer & R. R.	R. R. from Vallejo.
Calistoga Springs	67	" "	" " "
Geyser Springs	118	St'r, R.R.& Stage	Stage fr. Calistoga
Sonoma	52	Steamer & Stage	Daily.
Petaluma	48	"	Daily.
Santa Rosa	64	Steamer & R. R.	R.R.fm. Petaluma.
Healdsburg	80	" "	" "
Geyser Springs	105	" "	" "
San Quentin	12	Steamer	Daily.
San Rafael	16	Steamer & R. R.	R. R. from S. Q.
Saucilito	6	Ferry Boat	Passing Alcatraz.
Farallone Isls	21	Sail Boat	In the Ocean.

CALIFORNIA STATE STAMP TAX.

Rates of Stamp Tax on Bills of Exchange, Policies of Insurance, &c.

AMOUNTS TAXED.	Bills of Exchange.	Letters of Credit.	Policies of Insurance.
$20 to $50.....	$0 08	$0 08	$0 04
50 to 100.....	0 20	0 20	0 10
100 to 150.....	0 30	0 30	0 15
150 to 200.....	0 40	0 40	0 20
200 to 300.....	0 60	0 60	0 30
300 to 400.....	0 80	0 80	0 40
400 to 500.....	1 00	1 00	0 50
500 to 750.....	1 40	1 40	0 70
750 to 1,000.....	2 00	2 00	1 00
1,000 to 1,500.....	3 00	3 00	1 50
1,500 to 2,000.....	4 00	4 00	2 00
2,000 to 3,000.....	6 00	6 00	3 00
3,000 to 4,000.....	8 00	8 00	4 00
4,000 to 5,000.....	10 00	10 00	5 00
5,000 to 7,000.....	14 00	14 00	7 00
7,000 to 10,000.....	20 00	20 00	10 00
10,000 to 15,000.....	30 00	30 00	15 00
15,000 to 20,000.....	38 00	38 00	19 00
20,000 to 30,000.....	56 00	56 00	28 00
30,000 to 50,000.....	90 00	90 00	45 00
50,000 to 100,000.....	175 00	175 00	87 00
Above 100,000.....	200 00	200 00	100 00

Policies of Insurance, if for nine months and not less than six months, three fourths of the rates above charged; if for six months and not less than three months, one-half the rates above charged; if for three months or less, one-fourth the rates above charged.

Passengers' and Attorneys'.

First Class.....	$6 00
Second Class.....	4 00
Steerage.....	2 00
Attorneys'.....	10 00

TIDES AT SAN FRANCISCO.

Note. — The table of Tides for San Francisco are obtained from the latest data of the United States Coast Survey. These Tides are extremely irregular, both as regards interval and height. The two daily tides may occur either during the same morning, or during the same afternoon. In the tide columns of these pages the asterisk (*) denotes the second morning tide, and the obelisk (†) the first afternoon tide of the day when so occurring. Finally, the larger tide of the day is distinguished by the letter (*l*), and the smaller by (*s.*)

A COMPLETE

Table of Stamp Duties.

AGREEMENT, or CONTRACT, not otherwise specified; any appraisement of value or damage, or for other purpose; for each agreement, or for each sheet of each agreement, or renewal of same... $0.05

ASSIGNMENT.— See conveyance.

BANK CHECK, DRAFT, or ORDER for the payment of any sum of money drawn upon any bank, banker, or trust company, or for any sum exceeding $10, drawn upon any other person, companies, or corporations, at sight or on demand..... .02

BILL OF EXCHANGE, (*Inland*,) DRAFT, or ORDER, for the payment of money, not at sight or on demand, or any PROMISSORY NOTE (except bank notes issued for circulation, and checks made and intended to be forthwith presented, and which shall be presented to a bank or banker for payment,) or any memorandum, check, receipt, or other written or printed evidence of money to be paid on demand, or at a time designated, for every $100 or part thereof..... .05

BILL OF EXCHANGE, (*Foreign*,) or LETTERS OF CREDIT, drawn in but payable out of the United States:

If drawn singly or in duplicate, same as Inland bills of Exchange.

If drawn in sets of three or more, every bill of each set, for every $100, or the equivalent thereof, in any foreign currency in which the bill is expressed..... .02

BILL OF LADING, or RECEIPT, (other than charter party,) for any goods &c., exported to a foreign port..... .10

BILL OF SALE OF VESSEL, or any part thereof, consideration of value not over $500..... .50

Every add'l $500, or part thereof, 50 cents more.

BOND OF INDEMNITY, every $1,000, or part thereof.. .50

BOND, for the execution of the duties of any office.. 1.00

BOND, other than required in legal proceedings, or used in connection with mortgage deeds, and not otherwise charged..... .25

CERTIFICATE OF STOCK, in incorporated company.... .25

CERTIFICATE OF PROFITS, or any certificate or memorandum showing an interest in the property or accumulations of any incorporated company, if for $10 and not over $50..... .10

Over $50 and not over $1,000..... .25

Every add'l $1,000, or part thereof, 25 cents more.

CERTIFICATE OF DAMAGE, or otherwise, and all other certificates or documents issued by any port warden, marine surveyor, or person acting as such..... .25

CERTIFICATE OF DEPOSIT, $100 or less..... .02

Over $100..... .05

(Certificates of measurement or weight of animals, wood, coal, or hay; certificate of the record of a deed or other instrument in writing, or of the acknowledgment or proof thereof, by attesting witnesses, require no stamp.)

CERTIFICATE, of any description not specified above.. .05

CHARTER PARTY, (or renewal &c. of same,) contract or agreement for charter of vessel or steamer of registered tonnage, not over 150 tons..... 1.00

Over 150 and not over 300 tons..... 3.00

Over 300 and not over 600 tons..... 5.00

Over 600 tons..... 10.00

CONTRACT, or renewal, Broker's note, or memorandum of sale of merchandise, exchange, real estate, or other property issued by brokers, or persons acting as such, each..... .10

CONVEYANCE.—Deed or writing, whereby any lands, tenements, or other realty sold is granted, assigned, or transferred, for every $500, or part thereof..... .50

ENTRY OF GOODS, &c., at any custom house, for consumption or warehousing, of value not over $100 .25

Over $100 and not over $500..... .50

Over 500..... 1.00

WITHDRAWAL from bonded warehouse..... .50

INSURANCE (*Life*).—Policy, (or assignment, &c. of same,) not over $1,000..... .25

Over $1,000 and not over $5000..... .50

Over 5,000..... 1.00

INSURANCE, (*Marine, Inland, and Fire*).—Each policy or renewal, (or assignment, &c. of same,) on which premium is $10 or less..... .10
Over $10 and not over $50..... .25
Over 50..... .50

INSURANCE against accidental injury to persons, exempt.

LEASE, agreement, memorandum, or contract, for the hire, use, or rent of any land, tenement, or portion thereof, when rent or rental value is not over $300 per annum..... .50
Every add'l $200, or part thereof, 50 cents more.

LEASE, ASSIGNMENT OF.—A stamp duty equal to that imposed on the original instrument, increased by a stamp duty on the consideration or value of the assignment equal to that imposed upon the conveyance of land for similar consideration of value. (See Conveyance.)

MANIFEST, for custom house entry or clearance of vessel's cargo for foreign port, (except British North America,) tonnage not over 300 tons..... 1.00
Over 300 and not over 600 tons..... 3.00
Over 600 tons..... 5.00

MORTGAGE, Trust Deed, or Personal Bond, for the payment of money, over $100 and not over $500 .50
Every add'l $500, or part thereof, 50 cents more.
Upon each assignment or transfer of a mortgage, a stamp duty equal to that upon a mortgage for the amount remaining unpaid.
TRUST DEED conveying estate to uses, to be stamped as a conveyance.

OFFICIAL INSTRUMENTS, documents and papers issued by the officers of the United States government, or by the officers of any State, county or town, require no stamp.
Affidavits in suits or legal proceedings, exempt.
ORDER for the payment of money.—See Bank Check.

PASSAGE TICKET, to foreign port, costing $35 or less. .50
Over $35 and not over $50..... 1.00
Every add'l $50, or part thereof, $1 more.
PROTEST of note, bill of exchange, acceptance, check or draft, or any marine protest, whether protested by a notary public or by any other officer who may be authorized by law to make such protest, .25

POWER OF ATTORNEY, to sell or transfer any stock, bond, or scrip, or for the collection of any dividend, or interest thereon ..... .25

To vote by proxy for officers of any corporation or society, (except religious, charitable, literary societies, or public cemeteries,) ..... .10

To sell or rent real estate 1.00

To collect rents ..... .25

To perform any act not herein mentioned ..... .50

PROBATE OF WILL, or LETTERS OF ADMINISTRATION, value of estate not over $2,000 ..... 1.00

Every add'l $1,000, or part thereof, 50 cents more.

(Probate of will, letters testamentary or of administration, or administrator's or guardian's bonds, when the value of the estate, real and personal, does not exceed $1,000, require no stamp.)

PROMISSORY NOTE.—For a less sum than $100, exempt.

RECEIPT for any sum of money, or for the payment of any debt, exempt.

WAREHOUSE RECEIPT, exempt.

PROPRIETARY, Medicines, Perfumery, Cosmetics, Preparations, &c., each package retailed at not over 25 cents ..... .01

Over 25 cents and not over 50 cents ..... .02

Over 50 cents and not over 75 cents ..... .03

Over 75 cents and not over $1 ..... .04

Every add'l 50 cents, or part thereof, 2 cents more.

FRICTION MATCHES, or lucifer matches, or other articles made in part of wood, and used for like purposes, each package of 100 matches or part thereof ..... .01

Packages of more than 100 matches, for each 100 or part thereof ..... .01

CIGAR LIGHTS, made in part of wood, wax, glass, paper, or other materials, in packages containing twenty-five lights or less, each package ..... .01

Every additional twenty-five lights or part thereof, 1 cent more.

PLAYING CARDS, for and upon every pack, not exceeding fifty-two cards in number, irrespective of price or value ..... .05

CANNED MEATS, &c., for and upon every can, bottle or other single package, containing meats, fruits, vegetables, sauces, sirups, prepared mustard, jams or jellies, not exceeding 2 lbs. in weight... .01

Every additn'l pound or part thereof, 1 cent more.

The indiscriminate use of all kinds of stamps (except postage or proprietary) is permitted, care being taken to affix a stamp or stamps of the proper amount.

Documents made in any foreign country, to be used in the United States, shall pay the same duty as when made here.

Powers of Attorney, or other papers relating to applications for bounties, arrearages of pay, or pensions, require no stamp; neither do indorsement of negotiable instrument, nor any warrant of attorney accompanying a bond or note when such bond or note shall be stamped; and whenever any bond or note shall be secured by mortgage, but one stamp duty is required, provided the stamp duty placed thereon is the highest rate required for said instrument, or either of them.

The person using or affixing the stamp or stamps, shall write thereupon the initials of his name and the date upon which the same shall be attached or used, so that the same shall not be used again, under a penalty of $50; or they may be otherwise canceled as the Commissioner of Internal Revenue may prescribe.

Violations of these Stamp Duties will be punished as the law directs.

TEMPERATURE OF VARIOUS LOCALITIES.

PLACE.	LATITUDE	MEAN TEMPERATURE.		
		OF YEAR	OF WINT'R	OF SUM'R
Algiers	36°48′	69.98°	61.52°	80.24°
Amsterdam	52.22	51.62	36.86	65.84
Berne	46.05	49.28	32.00	66.56
Bourdeaux	44.50	56.48	42.08	70.88
Brussels	50.50	51.80	36.68	66.20
Cairo	30.02	72.32	58.46	85.10
Cambridge, U.S.	42.25	50.36	33.98	70.70
Cincinnati	39.06	53.78	32.90	72.86
Copenhagen	55.41	45.68	30.74	62.60
Dublin	53.21	49.10	39.20	59.54
Edinburgh	55.57	47.84	38.66	58.28
Geneva	46.12	49.28	34.70	64.94
Havana	23.10	78.08	71.24	83.30
London	51.30	50.36	39.56	63.14
Marsailles	43.17	59.00	45.50	72.50
Moscow	55.45	40.10	10.78	67.10
Nagasaki	32.45	60.80	39.38	82.94
Natchez	31.28	64.76	48.56	79.16
New York	40.40	53.78	29.84	79.16
Paris	48.50	51.08	38.66	64.58
Pekin	39.54	54.86	26.42	82.58
Philadelphia	39.56	53.42	32.18	73.94
Quebec	46.47	41.74	14.18	68.00
Rome	41.53	60.44	45.86	75.20
Sacramento	38.32	59.90	48.46	70.77
San Francisco	37.47	55.85	50.59	58.97
Stockholm	59.20	42.26	25.52	61.88
St. Petersburg	59.56	38.84	17.06	62.06
Vera Cruz	19.11	77.72	71.96	81.50
Vienna	48.12	50.54	32.72	69.26
Warsaw	52.14	48.56	28.76	69.08

IMPORTANT EPOCHS AND ERAS,

WITH THE PERIODS OF THEIR COMMENCEMENT.

—:o:—

Grecian Year of the World.....September 1, B. C. 5598.
Julian Period.....January 1, B. C. 4713.
Jewish Mundane Era.....Vernal Equinox, B. C. 3761.
Destruction of Troy.....June, B. C. 1184.
Building of Solomon's Temple.....May, B. C. 1015.
Era of Olympiads.....New Moon, Summer Solstice, B. C. 776.
Roman Era.....April 24, B. C. 753.
Era of Nabonasser.....February 26, B. C. 747.
Metonic Cycle.....July 15, B. C. 432.
Julian Year.....January 1, B. C. 45.
Augustan Era.....February 14, B. C. 27.
Indiction of Constantinople.....September 1, B. C. 3.
Christian Era.....January 1, A. D. 1; A. M. 4004.
Destruction of Jerusalem.....September 21, A. D. 69.
Era of Diocletian.....September 17, A. D. 284.
Era of Hegira.....July 16, A. D. 622.
Persian Era.....June 16, A. D. 632.
Conquest of England.....October 14, A. D. 1066.
Declaration American Independence.....July 4, A. D. 1776.

WEIGHTS AND MEASURES.

WEIGHT OF UNITED STATES COINS.

	Grains.	Ounces.		Grains.	Ounces.
Double Eagle	= 516	= 1.075	3-Dollar piece	= 77.4	= .16125
Eagle.....	= 258	= 0.5375	Quarter Eagle	= 64.5	= .144375
Half-Eagle...	= 129	= 0.26875	Dollar piece..	= 25.8	= .05375

The ounce of Gold is valued at $18.6046.
The ounce of Silver is valued at $1.25.

TROY WEIGHT.

Pound.		Ounces.		Pennyweights.		Grains.		Pounds Avoir.
1	=	12	=	240	=	5,760	=	.822861
..		1	=	20	=	480	=	.068571
..		..		1	=	24	=	.0034285

AVOIRDUPOIS WEIGHT.

Ton.		Cwt.		Pounds.		Ounces.		Drams.
1	=	20	=	2,240	=	35,840	=	573,440
..		1	=	112	=	1,792	=	28,672
..		..		1	=	16	=	256
..		..		..		1	=	16

APOTHECARIES' WEIGHT.

Pound.		Ounces.		Drams.		Scruples.		Grains.
1	=	12	=	96	=	288	=	5,760
..		1	=	8	=	24	=	480
..		..		1	=	3	=	60
..		..		..		1	=	20

LIQUID CAPACITY.

Gallon.		Quarts.		Pints.		Gills.		Cubic Inches.
1	=	4	=	8	=	32	=	231.
..		1	=	2	=	8	=	57.75
..		..		1	=	4	=	28.875
..		..		..		1	=	7.2175

A cylinder 7 inches in diameter and 6 inches high, holds a gallon.

A cubic foot contains 6.232 gallons.

DRY CAPACITY.

1 Bushel = 4 Pecks = 8 Gallons = 32 Quarts = 2150.42 Cubic Inches.

A cylinder 18.5 inches in diameter and 8 inches deep, holds a bushel.

MEASURES OF LENGTH.

Mile.		Furlongs.		Chains.		Rods.		Yards.		Feet.		Inches.
1	=	8	=	80	=	320	=	1,760	=	5,280	=	63,360
..		1	=	10	=	40	=	220	=	660	=	7,920
..		..		1	=	4	=	22	=	66	=	792
..		..		..		1	=	5.5	=	16.5	=	198
..		..		..		..		1	=	3	=	36
..		..		..		..		..		1	=	12

1 Statute Mile = 5,280 feet = .86275 Nautical Miles.

1 Nautical Mile = 6,120 feet = 1.15908 Statute Miles.

60 Nautical Miles = 69.545 Statute Miles.

1 Cable Length = 120 Fathoms = 240 Yards = 720 Feet.

MEASURES OF SURFACE.

Sq.Mile.		Acres.		Sq. Chains.		Sq. Rods.		Sq. Yards.		Sq. Feet.
1	=	640	=	6,400	=	102,400	=	3,097,600	=	27,878,400
..		1	=	10	=	160	=	4,840	=	43,560
..		..		1	=	16	=	484	=	4,356
..		..		..		1	=	30.25	=	272.25
..		..		..		..		1	=	9

A lot 220 by 198 feet = 1 Acre.

A 50-vara lot, San Francisco measurement, is 137½ feet square. A 100-vara lot is 275 feet square. The San Francisco Vara is 2 feet 9 inches. The true Vara is 2.781 feet. A San Francisco 100-vara lot = 1.7367 Acres.

DRAWING PAPER.

Cap	13 × 16 in.	Columbier	23 × 33¾ in.
Demy	15½ × 19½ "	Atlas	26 × 33 "
Medium	18 × 22 "	Theorem	28 × 34 "
Royal	19 × 24 "	Double Elephant	26 × 40 "
Super-royal	19 × 27 "	Antiquarian	31 × 52 "
Imperial	21¼ × 29 "	Emperor	40 × 60 "
Elephant	22¼ × 27¾ "	Uncle Sam	48 × 120 "

SPECIFIC GRAVITY OF SUBSTANCES.

Barometer, 30 in.; Fahren. Thermometer, 60 deg.

Platinum, wire	21.04	Aluminium	2.56
Gold, British standard	17.49	Glass, flint	2.8 to 3.6
Mercury	13.57	Limestone	2.4 to 3.0
Lead	11.35	Slate	2.1 to 2.9
Silver	10.51	Marble, Parian	2.84
Copper	8.8 to 8.9	Granite	2.65 to 2.75
Brass	7.8 to 8.7	Chalk	2.2 to 2.7
Steel	7.83	Ivory	1.83
Iron, wrought	7.79	Mahogany	1.06
Iron, cast	7.21	India Rubber	0.93
Tin	7.30	Proof Spirit	0.92
Zinc	6.2 to 7.2	Alcohol, pure	0.79
Antimony	6.7	Cork	0.24

THE METRIC SYSTEM.

MEASURES OF LENGTH.

Metric Denominations and Values.			Equivalents in Denominations in use.
Myriameter	=	10,000 meters	= 6.2137 miles.
Kilometer	=	1,000 meters	= 0.62137 m., or 3,280 ft., 10 in.
Hectometer	=	100 meters	= 328 feet and 1 inch.
Dekameter	=	10 meters	= 393.7 inches.
Meter	=	1 meter	= 39.37 inches.
Decimeter	=	.1 of a meter	= 3.937 inches.
Centimeter	=	.01 of a meter	= 0.3937 inch.
Millimeter	=	.001 of a meter	= 0.0394 inch.

MEASURES OF SURFACE.

Metric Denominations and Values.			Equivalents in Denominations in use.
Hectare	=	10,000 square meters	= 2.471 acres.
Are	=	100 square meters	= 119.6 square yards.
Centare	=	1 square meter	= 1550 square inches.

MEASURES OF CAPACITY.

Metric Denominations and Values.				Equivalents in Denominations in use.
NAMES.	NO. OF LITERS.	CUBIC MEASURE.	DRY MEASURE.	WINE MEASURE.
Kiloliter or stere	= 1,000	= 1 cubic meter	= 1.308 cubic yds.	= 264.17 galls.
Hectoliter	= 100	= .1 cubic meter	= 2 bush., 3.35 pks.	= 26.417 galls.
Dekaliter	= 10	= 10 c.decimet's	= 9.08 quarts	= 2.6417 galls.
Liter	= 1	= 1 cu.decimeter	= 0.908 quart	= 1.0567 qurts.
Deciliter	= .1	= .1 c. decimeter	= 6.1022 cubic ins.	= 0.845 gill.
Centiliter	= .01	= 10 c.centimet's	= 0.6102 cubic in.	0.338 fl'id oz.
Milliliter	= .001	= 1 c. centimeter	= 0.061 cubic inch	= 0.27 fluid dr.

WEIGHTS.

Metric Denominations and Values.				Equivalents in Denominations in use.
Names.	No. grams.	Weight of what quantity of water at maxim'm density.		Avoirdupois Weight.
Millier or tonneau	= 1,000,000	= 1 cubic meter		= 2204.6 pounds.
Quintal	= 100,000	= 1 hectoliter		= 220.46 pounds.
Myriagram	= 10,000	= 10 liters		= 22.046 pounds.
Kilogram or kilo	= 1,000	= 1 liter		= 2.2046 pounds.
Hectogram	= 100	= 1 deciliter		= 3.5274 ounces.
Dekagram	= 10	= 10 c.centimet's		= 0.3527 ounce.
Gram	= 1	= 1 c.centimeter		= 15.432 grains.
Decigram	= .1	= .1 c.centimeter		= 1.5432 grains.
Centigram	= .01	= 10 c millimet's		= 0.1543 grain.
Milligram	= .001	= 1 c. millimeter		= 0.0154 grain.

VALUE OF

FOREIGN GOLD AND SILVER COINS.

			D.	C.	M.
AUSTRIA	Gold,	Quadruple Ducat	9	12	0
"		Ducat	2	27	5
"		Sovereign (for Lombardy)	6	75	0
"	Silver,	Rix Dollar	0	97	0
"		Florin	0	48	5
"		Twenty Kreutzers	0	16	0
"		Lira (for Lombardy)	0	16	0
BADEN	Gold,	Five Gulden	2	04	0
"	Silver,	Crown	1	07	0
"		Gulden, or Florin	0	39	5
BAVARIA	Gold,	Ducat	2	27	0
"	Silver,	Crown	1	06	5
"		Florin	0	39	5
"		Six Kreutzers	0	03	0
BELGIUM	Gold,	Twenty-franc piece	3	83	2
"		Twenty-five-Franc piece	4	72	0
"	Silver,	Five Francs	0	93	0
"		Two-and-a-half Francs	0	46	5
"		Two Francs	0	37	0
"		Franc	0	18	5
BOLIVIA	Gold,	Doubloon	15	58	0
"	Silver,	Dollar	1	00	6
"		Half Dollar (debased, 1830)	0	37	5
"		Quar. Dollar (debased, 1830)	0	18	7
BRAZIL	Gold,	Piece of 6400 Reis	8	72	0
"	Silver,	Twelve hundred Reis	0	99	2
"		Eight hundred Reis	0	66	0
"		Four Hundred Reis	0	33	0
BREMEN	Silver,	Thirty-six Grote	0	35	6
BRITAIN	Gold,	Sovereign	4	84	5
"	Silver,	Half Crown	0	54	0
"		Shilling	0	21	7
"		Sixpence	0	10	8
"		Fourpence	0	07	1
BRUNSWICK	Gold,	Ten Thaler	7	89	0
"	Silver,	Thaler	0	68	0
CENT'L AMERICA	Gold,	Doubloon	14	96	0
"		Escudo	1	67	0
"	Silver,	Dollar (about)	0	67	0
COSTA RICA	Gold,	Half Doubloon (1850)	7	62	0
"	Silver,	New Real	0	05	8
CHILI	Gold,	Doubloon (before 1835)	15	57	0
"		Doubloon (1835, and since)	15	66	0
"	Silver,	Dollar	1	01	0
"		Quarter Dollar	0	22	4
"		Eighth Dollar, or Real	0	11	2
DENMARK	Gold,	Double Fred. or Ten Thaler	7	88	0
"	Silver,	Rigsbank Daler	0	52	3
"		Specie Daler	1	04	7
"		Thirty-two Skillings	0	17	0
ECUADOR	Gold,	Half Doubloon	7	60	0
"	Silver,	Quarter Dollar	0	18	7
EGYPT	Gold,	Hundred Piastres	4	97	0
"	Silver,	Twenty Piastres	0	96	0
FRANCE	Gold,	Twenty Francs	3	85	0
"	Silver,	Five Francs	0	93	2
"		Franc	0	18	5
FRANKFORT	Silver,	Florin	0	39	5
GREECE	Gold,	Twenty Drachms	3	45	0
"		Drachm	0	16	5
GUIANA, BRITISH	Silver,	Guilder	0	26	2
HANOVER	Gold,	Ten Thaler	7	89	0
"	Silver,	Thaler (fine silver)	0	59	2
"		Thaler (750 fine)	0	68	0
HAYTI	Silver,	Dollar, or 100 Centimes	0	25	7

VALUE OF FOREIGN COINS.

			D.	C.	M.
HESSE CASSEL...	Silver,	Thaler	0	67	5
"		One-sixth Thaler	0	11	0
HESSE DARMSTADT, "		Florin, or Gulden	0	39	5
HINDOSTAN.....	Gold,	Mohur (E. I. Co.)	7	10	0
	Silver,	Rupee	0	44	5
MECKLENBURG...	Gold,	Ten Thaler	7	89	0
MEXICO.....	Gold,	Doubloon (average)	15	53	0
"	Silver,	Dollar (average)	1	00	7
NAPLES.....	Silver,	Scudo	0	94	0
NETHERLANDS ...	Gold,	Ducat	2	26	5
"		Ten Guilders	4	00	7
"	Silver,	Three Guilders	1	20	0
"		Guilder	0	40	0
"		Twenty-five Cents	0	09	5
"		Two-and-a-half Guilders	0	98	2
NEW GRANADA...	Gold,	Doubloon, 21 carat stand.,	15	61	0
"		" includ'g the silver,	15	66	0
"		" nine-tenths stand.,	15	31	0
"		" includ'g the silver,	15	36	0
"	Silver,	Dollar, usual weight	1	02	0
"		Dollar, or Ten Reals, 1851..	0	93	0
NORWAY.....	Silver,	Rigsdaler	1	05	0
PERSIA.....	Gold,	Tomann	2	23	0
"	Silver,	Sahib Koran	0	21	5
PERU.....	Gold,	Doubloon, Lima, to 1833	15	55	0
"		Doubloon, Cuzco, to 1833	15	62	0
"		Doubloon, Cuzco, 1837	15	53	0
"	Silver,	Dollar, Lima mint	1	00	6
"		Dollar, Cuzco	1	00	8
"		Half Dollar, Cuzco, debased	0	36	0
"		Half Dollar, Arequipa, "	0	36	0
"		Half Dollar, Pasco	0	49	5
POLAND.....	Silver,	Zloty	0	11	2
PORTUGAL.....	Gold,	Half Joe (full weight)	8	65	0
"		Crown	5	81	0
"	Silver,	Cruzado	0	55	2
"		Crown of 1000 Reis	1	12	0
"		Half Crown	0	56	0
PRUSSIA.....	Gold,	Double Frederick	8	00	0
"	Silver,	Thaler, average	0	68	0
"		One-sixth Thaler, average	0	11	0
"		Double Thaler, or 3½ Gulden	1	39	0
ROME.....	Gold,	Ten Scudi	10	37	0
"	Silver,	Scudo	1	00	5
"		Teston (3-10 Scudo)	0	30	0
RUSSIA.....	Gold,	Five Roubles	3	96	7
"	Silver,	Rouble	0	75	0
"		Ten Zloty	1	13	5
"		Thirty Copecks	0	22	0
SARDINIA.....	Gold,	Twenty Lire	3	84	5
"	Silver,	Five Lire	0	93	2
SAXONY.....	Gold,	Ten Thaler	7	94	0
"		Ducat	2	26	0
"	Silver,	Species Thaler	0	96	0
"		Thaler (XIV. F.M.)	0	68	0
SIAM.....	Silver,	Tical	0	58	5
SPAIN.....	Gold,	Pistole (Quarter Doubloon)	3	90	5
"	Silver,	Pistareen (4 Reals Vellon..)	0	19	5
SWEDEN.....	Silver,	Species Daler	1	04	2
"		Half Daler	0	52	0
TURKEY.....	Gold,	Hundred Piastres	4	37	4
"		Twenty Piastres (new)	0	82	0
"	Silver,	Twenty Piastres (new)	0	82	0
TUSCANY.....	Gold,	Sequin	2	30	0
"	Silver,	Leopoldone	1	05	0
"		Florin	0	26	2
WURTEMBERG...	Silver,	Gulden, 1824	0	38	5
"		Gulden, 1838, and since	0	39	5
"		Double Thaler, or 3½ Gulden	1	39	0

RATES OF POSTAGE.

LETTERS TO ANY PART OF THE UNITED STATES, 3 cents for each 1-2 ounce or part thereof.

DROP LETTERS, 2 cents per each half ounce.

ADVERTISED LETTERS, 1 cent, in addition to the regular rates.

VALUABLE LETTERS may be registered on application at the office of mailing, and the payment of a registration fee of 20 cents.

TRANSIENT NEWSPAPERS, Periodicals, Pamphlets, Blanks, Proof Sheets, Book Manuscripts, and all mailable printed matter, (except circulars and books,) 2 cents for each and every 4 ounces. Double these rates are charged for Books.

UNSEALED CIRCULARS, (to one address,) not exceeding 3 in number, 2 cents, and in the same proportion for a greater number.

SEEDS, CUTTINGS, ROOTS, &C., 2 cents for each 4 ounces or less quantity. Weight not to exceed 4 lbs.

ALL PACKAGES of Mail Matter not charged with letter postage must be so arranged that the same can be *conveniently* examined by Postmasters; if not, letter postage will be charged.

NO PACKAGE will be forwarded by mail which weighs over 4 pounds.

ALL MAILABLE MATTER, for delivery within the United States, except newspapers sent to regular subscribers, must be PREPAID by stamps, except duly certified letters of soldiers and sailors.

WEEKLY NEWSPAPERS, (one copy only,) sent to actual Subscribers within the County where printed and published, *free*. This does not include papers published in the City and circulated in the City.

LETTERS TO BRITISH COLUMBIA, MEXICO, JAPAN, CHINA, MANILA, AND SANDWICH ISLANDS, 10 cents for each 1-2 ounce. Prepayment required. Postage on newspapers, 2 cents.

LETTERS TO PANAMA AND ASPINWALL, 10 cents for each 1-2 ounce; papers, 2 cents each.

LETTERS TO AUSTRALIA, NEW ZEALAND, AND TASMANIA, 10 cents for each 1-2 ounce.

LETTERS TO THE DOMINION OF CANADA, 6 cents for each 1-2 ounce if prepaid, and 10 cents if unpaid.

LETTERS TO GREAT BRITAIN OR IRELAND, 6 cents for each 1-2 ounce. Prepayment optional; but, if unpaid, subject to a fine.

LETTERS TO OTHER FOREIGN COUNTRIES vary in rate according to the route by which they are sent, and the proper information can be obtained of any Postmaster in the United States.

THE SOLAR SYSTEM.

The Sun, the centre of the Solar System, has a diameter of 885,680 miles, and its bulk is 1,400,000 times greater than that of the Earth, and 700 times greater than that of all the bodies revolving around it.

THE PLANETS.

Name.	Diameter in Miles.	Volume.	Distance from Sun.	Period of Revolution.
Mercury,	2,950	1–19	36,000,000	3 mos.
Venus,	7,800	9–10	67,000,000	7½ mos.
Earth,	7,912	1	92,000,000	1 yr.
Mars,	4,500	1–6	140,000,000	2 yrs.
Asteroids,	(approximate)		250,000,000	4½ yrs.
Jupiter,	89,000	1,400	480,000,000	12 yrs.
Saturn,	79,000	1,000	876,000,000	29 yrs.
Uranus,	35,000	86	1,762,000,000	84 yrs.
Neptune,	31,000	60	2,760,000,000	164 yrs.

The Moon's diameter is 2,160 miles, and her volume one forty-ninth of that of the Earth. She revolves in her orbit once in 29½ days, at a distance of 240,000 miles from the Earth.

The Asteroids exceed one hundred in number. Leverrier estimates that their aggregate mass does not exceed one-third of that of the Earth.

VELOCITY OF THE EARTH'S MOTION. — The Earth moves forward in its orbit, 1,640,000 miles per day, 68,000 miles per hour, 1,100 miles per minute, and nearly 19 miles every second.

APPARENT TIME is reckoned by the revolutions of the Sun from the meridian to the meridian again. These intervals being unequal, of course the apparent solar days are unequal to each other.

MEAN TIME is time reckoned by the *average* length of all the solar days throughout the year. This is the period which constitutes the civil day of 24 hours.

TIME TABLE.

Time of day at various places on the globe when it is 12 o'clock (noon) at San Francisco.

A. M.	H	M	S
Astoria, Oregon..	11	54	12
Calcutta, India....	1	35	56
Canton, China....	3	43	00
Honolulu, S. I....	9	39	8
Melbourne, Aust..	5	48	00
Pekin, China.....	3	56	00
Sydney, Australia.	6	14	00
Singapore, E. I....	3	8	00
Shanghai, China...	4	12	40
Tobolsk, Siberia...	12	43	00
Yedo, Japan.....	5	30	00
Yreka, Cal.....	11	59	30
P. M.			
Acapulco, Mex ...	1	26	28
Archangel, Russia.	10	50	00
Aspinwall, Isthm's.	2	50	40
Berlin, Prus.....	9	3	35
Boston, Mass.....	3	25	48
Cape Good Hope..	9	32	50
Charleston, S. C...	2	50	40
Chicago, Ill.....	2	19	44
Cincinnati, O.....	2	32	16
Constantinople....	10	9	44
Detroit, Mich.....	2	38	12
Eastport, Maine...	3	42	00
Fort Yuma, Cal...	12	31	18
Frankfort, Ger....	8	43	24
Galveston, Tex....	1	50	32
Geneva, Switz.....	8	34	42
Gibraltar, Spain...	7	48	44

P. M.	H	M	S
Halifax, N. S.....	3	55	36
Havana, Cuba.....	2	41	00
Jerusalem, Pal....	10	31	24
Lima, Peru.....	3	1	36
London, Eng.....	8	9	31
Los Angelos, Cal...	12	16	30
Louisville, Ky.....	2	27	4
Mexico, Mex.....	1	33	44
Mecca, Ara.....	10	50	00
Montreal, Canada..	3	15	44
New Orleans, La...	2	9	40
New York City....	3	14	00
Nevada, Cal.....	12	5	15
Oregon City, Ore..	12	0	40
Panama, Isthmus.	2	52	40
Paris, France.....	8	19	24
Philadelphia, Pa...	3	9	22
Placerville, Cal....	12	6	18
Portland, Me.....	3	29	8
Rio Janeiro, Brazil.	5	17	8
Rome, Italy.....	9	0	3
Sacramento, Cal...	12	3	58
Santa Fe, N. Mex..	12	55	44
Salt Lake City....	12	41	40
St. Louis, Mo.....	2	9	4
St. Petersburg....	10	11	20
Stockholm, Swd'n.	9	22	20
Toronto, Canada...	2	52	00
Vienna, Austria...	9	15	35
Washington, D. C..	3	2	00

At the Isle of France, Indian Ocean, it is midnight when it is noon at San Francisco.

CHRONOLOGICAL CYCLES, 1872.

Dominical Letters.....	G.F.	Lunar Cycle or Golden No.	11
Epact.....	20	Roman Indiction.....	15
Solar Cycle.....	5	Julian Period.....	6,585

ECLIPSES IN THE YEAR 1872.

In the year 1872 there will be four Eclipses; two of the Sun, and two of the Moon.

I.—A PARTIAL ECLIPSE OF THE MOON, May 22d, invisible to California. Visible, more or less, to Europe, Asia, Africa, South America, and eastern edge of North America.

II.—AN ANNULAR ECLIPSE OF THE SUN, June 6th, invisible to North America. Visible to Asia.

III.—A PARTIAL ECLIPSE OF THE MOON, November 14th, visible at San Francisco as follows:

Moon enters Penumbra	6	52	after.
Moon enters Shadow	8	52	"
Middle of Eclipse	9	10	"
Moon leaves Shadow	9	27	"
Moon leaves Penumbra	11	27	"

IV.—A TOTAL ECLIPSE OF THE SUN, November 30th, invisible to North America. Visible to southern part of South America and South Pacific Ocean.

Morning and Evening Stars.

VENUS will be *Morning Star* until July 16th; and *Evening Star* the rest of the year.

JUPITER will be *Morning Star* until January 15th; then *Evening Star* till August 2d, and *Morning Star* again the rest of the year.

List of Sundays in 1872.

JANUARY	7	14	21	28	
FEBRUARY	4	11	18	25	
MARCH	3	10	17	24	31
APRIL	7	14	21	28	
MAY	5	12	19	26	
JUNE	2	9	16	23	30
JULY	7	14	21	28	
AUGUST	4	11	18	25	
SEPTEMBER	1	8	15	22	29
OCTOBER	6	13	20	27	
NOVEMBER	3	10	17	24	
DECEMBER	1	8	15	22	29

ALMANAC FOR 1872.

January.

MOON'S PHASES.

Last Quarter, 3d. 1h. 49m. A.
New Moon, 10d. 6h. 48m. M.
First Quarter, 17d. 3h. 52m. M.
Full Moon, 25d. 9h. 4m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Mo	7 16	4 51	9 35	10 29
2	Tu	7 16	4 52	9 36	11 30
3	We	7 16	4 54	9 38	morn
4	Th	7 16	4 55	9 39	0 33
5	Fr	7 16	4 56	9 40	1 39
6	Sa	7 16	4 57	9 41	2 49
7	S	7 16	4 58	9 42	4 1
8	Mo	7 16	4 59	9 43	5 14
9	Tu	7 15	5 0	9 45	6 27
10	We	7 15	5 1	9 46	sets
11	Th	7 15	5 2	9 47	6 30
12	Fr	7 15	5 3	9 48	7 44
13	Sa	7 15	5 4	9 49	8 56
14	S	7 14	5 5	9 51	10 6
15	Mo	7 14	5 6	9 52	11 10
16	Tu	7 14	5 7	9 53	morn
17	We	7 14	5 8	9 54	0 12
18	Th	7 13	5 9	9 56	1 13
19	Fr	7 13	5 10	9 57	2 13
20	Sa	7 12	5 11	9 59	3 12
21	S	7 12	5 12	10 0	4 10
22	Mo	7 11	5 13	10 2	5 6
23	Tu	7 11	5 14	10 3	5 58
24	We	7 10	5 16	10 6	6 46
25	Th	7 10	5 17	10 7	rises
26	Fr	7 9	5 18	10 9	6 20
27	Sa	7 8	5 19	10 11	7 22
28	S	7 7	5 20	10 13	8 24
29	Mo	7 7	5 21	10 14	9 25
30	Tu	7 6	5 22	10 16	10 26
31	We	7 5	5 23	10 18	11 30

February.

MOON'S PHASES.

Last Quarter, 2d. 2h. 0m. M.
New Moon, 8d. 5h. 42m. A.
First Quarter, 15d. 10h. 14m. A.
Full Moon, 24d. 2h. 46m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Th	7 4	5 24	10 20	morn
2	Fr	7 3	5 25	10 22	0 36
3	Sa	7 2	5 27	10 25	1 45
4	S	7 1	5 28	10 27	2 55
5	Mo	7 0	5 29	10 29	4 4
6	Tu	6 59	5 30	10 31	5 11
7	We	6 58	5 31	10 33	6 12
8	Th	6 57	5 33	10 36	sets
9	Fr	6 56	5 34	10 38	6 30
10	Sa	6 55	5 35	10 40	7 41
11	S	6 54	5 36	10 42	8 50
12	Mo	6 53	5 37	10 44	9 57
13	Tu	6 52	5 38	10 46	11 1
14	We	6 51	5 39	10 48	morn
15	Th	6 50	5 40	10 50	0 2
16	Fr	6 49	5 41	10 52	1 3
17	Sa	6 48	5 42	10 54	2 2
18	S	6 46	5 43	10 57	2 59
19	Mo	6 45	5 44	10 59	3 52
20	Tu	6 44	5 45	11 1	4 42
21	We	6 43	5 46	11 3	5 26
22	Th	6 41	5 47	11 6	6 5
23	Fr	6 40	5 48	11 8	rises
24	Sa	6 38	5 49	11 11	6 15
25	S	6 37	5 50	11 13	7 17
26	Mo	6 36	5 51	11 15	8 19
27	Tu	6 34	5 52	11 18	9 23
28	We	6 33	5 53	11 20	10 28
29	Th	6 31	5 54	11 23	11 36
..	..	..	..	..	..
..	..	..	..	..	..

HIGH TIDES::JANUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	4 33s	3 25l	17	6 18s	6 22l
2	5 15s	4 36l	18	6 50l	7 40s
3	6 0s	5 40s	19	7 27l	8 58s
4	6 54l	6 46s	20	8 2l	10 2s
5	7 28l	7 57s	21	8 35l	11 1s
6	8 7l	9 0s	22	9 6l	
7	8 43l	10 31s	23	0 0s	9 34l*
8	9 31l	11 38s	24	0 34s	10 9l*
9	10 12l		25	1 7s	10 46l*
10	0 42s	10 42l*	26	1 34s	11 41l*
11	1 36s	11 38l*	27	2 15s	0 30l
12	2 27s	0 39l	28	2 44s	1 17l
13	3 11s	1 37l	29	3 7s	2 11l
14	3 56s	2 42l	30	3 35s	3 12l
15	4 41s	3 51l	31	4 26l	4 13s
16	5 34s	5 10l		* For	explan

HIGH TIDES::FEBRUARY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	4 55l	5 29s	16	5 34l	7 34s
2	5 39l	6 47s	17	6 9l	8 35s
3	6 21l	8 7s	18	6 56l	9 50s
4	7 7l	9 28s	19	7 37l	10 37s
5	8 2l	10 44s	20	8 25l	11 23s
6	8 50l	11 45s	21	9 10l	11 58s
7	9 45l		22	9 56l	
8	0 35s	10 47l*	23	0 29s	10 38l*
9	1 20s	11 46l*	24	0 52s	11 39l*
10	1 59s	0 45l	25	1 29s	0 29l
11	2 31s	1 41l	26	1 53s	1 17l
12	3 1s	2 37l	27	2 31l	2 2s
13	3 35s	3 39l	28	2 44l	3 0s
14	4 13l	5 3s	29	3 10l	4 12s
15	4 52l	6 18s			
at	ory rem	arks, s	ee	Note on	page 17

ALMANAC FOR 1872.

March.

MOON'S PHASES.

Last Quarter, 2d. 11h. 18m. M.
New Moon, 9d. 4h. 43m. M.
First Quarter, 16d. 6h. 15m. A.
Full Moon, 24d. 5h. 33m. A.
Last Quarter, 31d. 6h. 21m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Fr	6 30	5 55	11 25	morn
2	Sa	6 29	5 56	11 27	0 47
3	♋	6 27	5 57	11 30	1 54
4	Mo	6 26	5 58	11 32	2 59
5	Tu	6 24	5 59	11 35	3 59
6	We	6 23	6 0	11 37	4 52
7	Th	6 21	6 1	11 40	5 37
8	Fr	6 20	6 2	11 42	6 14
9	Sa	6 18	6 3	11 45	sets
10	♋	6 17	6 4	11 47	7 36
11	Mo	6 15	6 5	11 50	8 43
12	Tu	6 14	6 6	11 52	9 48
13	We	6 12	6 7	11 55	10 49
14	Th	6 11	6 7	11 56	11 50
15	Fr	6 9	6 8	11 59	morn
16	Sa	6 8	6 9	12 1	0 49
17	♋	6 6	6 10	12 4	1 45
18	Mo	6 5	6 11	12 6	2 37
19	Tu	6 3	6 12	12 9	3 24
20	We	6 2	6 13	12 11	4 4
21	Th	6 0	6 14	12 14	4 40
22	Fr	5 58	6 15	12 17	5 11
23	Sa	5 56	6 16	12 20	5 42
24	♋	5 55	6 17	12 22	rises
25	Mo	5 53	6 18	12 25	7 13
26	Tu	5 52	6 19	12 27	8 18
27	We	5 51	6 20	12 29	9 27
28	Th	5 49	6 21	12 32	10 37
29	Fr	5 48	6 21	12 33	11 45
30	Sa	5 46	6 22	12 36	morn
31	♋	5 45	6 23	12 38	0 53

April.

MOON'S PHASES.

New Moon, 7d. 4h. 21m. A.
First Quarter, 15d. 2h. 1m. A
Full Moon, 23d. 5h. 27m. M
Last Quarter, 30d. 0h. 11m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Mo	5 43	6 24	12 41	1 54
2	Tu	5 42	6 25	12 43	2 49
3	We	5 40	6 26	12 46	3 34
4	Th	5 39	6 27	12 48	4 13
5	Fr	5 37	6 28	12 51	4 47
6	Sa	5 36	6 29	12 53	5 17
7	♋	5 34	6 30	12 56	sets
8	Mo	5 33	6 30	12 57	7 31
9	Tu	5 31	6 31	13 0	8 34
10	We	5 30	6 32	13 2	9 36
11	Th	5 29	6 33	13 4	10 38
12	Fr	5 27	6 34	13 7	11 36
13	Sa	5 26	6 35	13 9	morn
14	♋	5 24	6 36	13 12	0 29
15	Mo	5 23	6 37	13 14	1 17
16	Tu	5 22	6 38	13 16	1 59
17	We	5 20	6 39	13 19	2 38
18	Th	5 19	6 40	13 21	3 13
19	Fr	5 17	6 41	13 24	3 42
20	Sa	5 16	6 42	13 26	4 10
21	♋	5 15	6 43	13 28	4 36
22	Mo	5 14	6 44	13 30	5 4
23	Tu	5 12	6 44	13 32	rises
24	We	5 11	6 45	13 34	8 23
25	Th	5 10	6 46	13 36	9 35
26	Fr	5 9	6 47	13 38	10 45
27	Sa	5 8	6 48	13 40	11 51
28	♋	5 6	6 49	13 43	morn
29	Mo	5 5	6 50	13 45	0 48
30	Tu	5 4	6 51	13 47	1 36
..	...	.....	....	.....	.....

HIGH TIDES::MARCH.

D	Morn'g	Even'g
1	3 46*l*	5 35*s*
2	4 35*l*	6 55*s*
3	5 29*l*	8 18*s*
4	6 24*l*	9 34*s*
5	7 34*l*	10 39*s*
6	8 41*l*	11 30*s*
7	9 42*l*	
8	0 10*s*	10 56*l**
9	0 42*s*	11 52*l**
10	1 14*s*	0 50*l*
11	1 39*s*	1 43*l*
12	1 56*l*	2 46*s*
13	2 20*l*	3 46*s*
14	2 50*l*	4 50*s*
15	3 31*l*	5 56*s*
16	4 19*l*	7 13*s*
17	5 7*l*	8 7*s*
18	6 4*l*	9 2*s*
19	7 4*l*	9 52*s*
20	8 4*l*	10 38*s*
21	8 56*l*	11 10*s*
22	9 47*l*	11 37*s*
23	10 34*l*	11 58*s*
24	11 21*l*	
25	0 17*l*	0 5*s*
26	1 19*l*	0 58*s*
27	1 40*l*	1 32*s*
28	2 2*l*	2 53*s*
29	2 47*l*	4 5*s*
30	3 5*l*	5 30*s*
31	4 4*l*	6 58*s*

HIGH TIDES::APRIL.

D	Morn'g	Even'g
1	5 4*l*	8 15*s*
2	6 15*l*	9 27*s*
3	7 29*l*	10 26*s*
4	8 38*l*	11 10*s*
5	9 36*l*	11 42*s*
6	10 28*l*	
7	0 8*s*	11 44*l**
8	0 33*s*	0 37*l*
9	0 49*l*	1 39*s*
10	1 11*l*	2 37*s*
11	1 31*l*	3 31*s*
12	1 57*l*	4 23*s*
13	2 38*l*	5 32*s*
14	3 29*l*	6 29*s*
15	4 28*l*	7 26*s*
16	5 30*l*	8 18*s*
17	6 33*l*	9 7*s*
18	7 36*l*	9 50*s*
19	8 34*l*	10 24*s*
20	9 29*l*	10 53*s*
21	10 19*l*	11 15*s*
22	11 8*l*	11 36*s*
23	11 49*s*	11 59*l*
24		1 7*s*
25	0 41*l*	2 7*s*
26	1 7*l*	3 7*s*
27	1 41*l*	4 20*s*
28	2 26*l*	5 39*s*
29	3 39*l*	6 55*s*
30	4 57*l*	8 2*s*

ALMANAC FOR 1872.

May.

MOON'S PHASES.

New Moon, 7d. 5h. 8m. M.
First Quarter, 15d. 7h. 55m. M.
Full Moon, 22d. 2h. 58m. A.
Last Quarter, 29d. 6h. 2m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	We	5 3	6 52	13 49	2 16
2	Th	5 2	6 53	13 51	2 51
3	Fr	5 0	6 53	13 53	3 20
4	Sa	4 59	6 54	13 55	3 49
5	♋	4 58	6 55	13 57	4 16
6	Mo	4 57	6 56	13 59	4 43
7	Tu	4 56	6 57	14 1	sets
8	We	4 55	6 58	14 3	8 26
9	Th	4 54	6 59	14 5	9 24
10	Fr	4 53	7 0	14 7	10 20
11	Sa	4 52	7 1	14 9	11 11
12	♋	4 51	7 2	14 11	11 57
13	Mo	4 51	7 2	14 11	morn
14	Tu	4 50	7 3	14 13	0 36
15	We	4 49	7 4	14 15	1 11
16	Th	4 48	7 5	14 17	1 41
17	Fr	4 47	7 6	14 19	2 9
18	Sa	4 47	7 6	14 19	2 36
19	♋	4 46	7 7	14 21	3 3
20	Mo	4 45	7 8	14 23	3 31
21	Tu	4 44	7 9	14 25	4 2
22	We	4 44	7 10	14 26	4 35
23	Th	4 43	7 10	14 27	rises
24	Fr	4 43	7 11	14 28	9 37
25	Sa	4 42	7 12	14 30	10 39
26	♋	4 42	7 13	14 31	11 32
27	Mo	4 41	7 14	14 33	morn
28	Tu	4 41	7 14	14 33	0 16
29	We	4 40	7 15	14 35	0 53
30	Th	4 40	7 16	14 36	1 25
31	Fr	4 40	7 17	14 37	1 54

June.

MOON'S PHASES.

New Moon, 5d. 7h. 13m. A.
First Quarter, 13d. 11h. 9m. A.
Full Moon, 20d. 10h. 47m. A.
Last Quarter, 27d. 1h. 17m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Sa	4 39	7 17	14 38	2 20
2	♋	4 39	7 18	14 39	2 45
3	Mo	4 39	7 18	14 39	3 12
4	Tu	4 38	7 19	14 41	3 43
5	We	4 38	7 19	14 41	4 17
6	Th	4 38	7 20	14 42	sets
7	Fr	4 37	7 20	14 43	9 7
8	Sa	4 37	7 21	14 44	9 54
9	♋	4 37	7 21	14 44	10 36
10	Mo	4 37	7 21	14 44	11 12
11	Tu	4 37	7 22	14 45	11 42
12	We	4 37	7 22	14 45	morn
13	Th	4 37	7 23	14 46	0 11
14	Fr	4 37	7 23	14 46	0 38
15	Sa	4 37	7 23	14 46	1 4
16	♋	4 37	7 24	14 47	1 29
17	Mo	4 38	7 24	14 47	1 57
18	Tu	4 38	7 25	14 47	2 28
19	We	4 38	7 25	14 47	3 6
20	Th	4 38	7 25	14 47	3 52
21	Fr	4 38	7 25	14 47	rises
22	Sa	4 39	7 26	14 47	9 22
23	♋	4 39	7 26	14 47	10 11
24	Mo	4 39	7 26	14 47	10 53
25	Tu	4 39	7 26	14 47	11 26
26	We	4 40	7 26	14 46	11 56
27	Th	4 40	7 26	14 46	morn
28	Fr	4 41	7 26	14 45	0 24
29	Sa	4 41	7 26	14 45	0 51
30	♋	4 41	7 26	14 45	1 18

HIGH TIDES :: MAY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	6 14*l*	9 2*s*	17	7 15*l*	8 39*s*
2	7 28*l*	9 50*s*	18	8 19*l*	9 15*s*
3	8 36*l*	10 26*s*	19	9 19*l*	9 47*s*
4	9 36*l*	10 54*s*	20	10 8*s*	10 18*l*
5	10 40*s*	11 9*l*	21	11 4*s*	10 38*l*
6	11 27*s*	11 26*l*	22	0 1*s*†	11 1*l*
7	0 16*s*†	11 48*l*	23	1 19*s*†	11 53*l*
8		1 14*s*	24		2 20*s*
9	0 9*l*	2 35*s*	25	0 26*l*	3 16*s*
10	0 34*l*	3 28*s*	26	1 16*l*	4 15*s*
11	1 3*l*	4 3*s*	27	2 17*l*	5 24*s*
12	1 48*l*	4 46*s*	28	3 36*l*	6 32*s*
13	2 50*l*	5 38*s*	29	4 58*l*	7 27*s*
14	3 57*l*	6 31*s*	30	6 13*l*	8 14*s*
15	5 6*l*	7 20*s*	31	7 24*l*	8 55*s*
16	6 10*l*	8 0*s*			

HIGH TIDES :: JUNE.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	8 31*l*	9 30*s*	16	7 48*l*	8 16*s*
2	9 16*s*	10 5*l*	17	8 48*s*	8 58*l*
3	10 23*s*	10 28*l*	18	9 54*s*	9 23*l*
4	11 18*s*	10 46*l*	19	11 0*s*	10 0*l*
5	0 12*s*†	11 4*l*	20	0 2*s*†	10 36*l*
6	1 4*s*†	11 34*l*	21	1 21*s*†	11 27*l*
7		2 0*s*	22		2 15*s*
8	0 0*l*	3 0*s*	23	0 15*l*	3 7*s*
9	0 38*l*	3 36*s*	24	1 9*l*	3 58*s*
10	1 23*l*	4 11*s*	25	2 10*l*	4 56*s*
11	2 20*l*	4 54*s*	26	3 22*l*	5 53*s*
12	3 22*l*	5 36*s*	27	4 39*l*	6 43*s*
13	4 32*l*	6 22*s*	28	5 53*l*	7 28*s*
14	5 37*l*	7 1*s*	29	7 10*l*	7 58*l*
15	6 41*l*	7 37*s*	30	8 16*l*	8 34*l*

ALMANAC FOR 1872.

July.

MOON'S PHASES.

New Moon, 5d. 10h. 15m. M.
First Quarter, 13d. 11h. 38m. M.
Full Moon, 20d. 5h. 43m. M.
Last Quarter, 26d. 11h. 8m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Mo	4 42	7 26	14 44	1 48
2	Tu	4 42	7 25	14 43	2 20
3	We	4 43	7 25	14 42	2 56
4	Th	4 43	7 25	14 42	3 40
5	Fr	4 44	7 24	14 40	sets
6	Sa	4 44	7 24	14 40	8 34
7	♋	4 45	7 24	14 39	9 12
8	Mo	4 45	7 23	14 38	9 45
9	Tu	4 46	7 23	14 37	10 13
10	We	4 47	7 23	14 36	10 40
11	Th	4 48	7 22	14 34	11 6
12	Fr	4 48	7 22	14 34	11 32
13	Sa	4 49	7 21	14 32	11 58
14	♋	4 50	7 21	14 31	morn
15	Mo	4 51	7 20	14 29	0 27
16	Tu	4 52	7 20	14 28	1 0
17	We	4 52	7 19	14 27	1 40
18	Th	4 53	7 19	14 26	2 30
19	Fr	4 54	7 18	14 24	3 31
20	Sa	4 55	7 17	14 22	rises
21	♋	4 56	7 16	14 20	8 45
22	Mo	4 56	7 16	14 20	9 24
23	Tu	4 57	7 15	14 18	9 56
24	We	4 58	7 14	14 16	10 26
25	Th	4 59	7 13	14 14	10 53
26	Fr	5 0	7 12	14 12	11 20
27	Sa	5 0	7 12	14 12	11 50
28	♋	5 1	7 11	14 10	morn
29	Mo	5 2	7 10	14 8	0 20
30	Tu	5 3	7 9	14 6	0 57
31	We	5 4	7 8	14 4	1 37

August.

MOON'S PHASES.

New Moon, 4d. 1h. 35m. M.
First Quarter, 11d. 9h. 42m. A.
Full Moon, 18d. 0h. 43m. A.
Last Quarter, 25d. 0h. 25m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Th	5 4	7 7	14 3	2 24
2	Fr	5 5	7 6	14 1	3 15
3	Sa	5 6	7 5	13 59	4 11
4	♋	5 7	7 4	13 57	sets
5	Mo	5 8	7 3	13 55	8 17
6	Tu	5 8	7 1	13 53	8 44
7	We	5 9	7 0	13 51	9 9
8	Th	5 10	6 59	13 49	9 34
9	Fr	5 11	6 58	13 47	10 0
10	Sa	5 12	6 57	13 45	10 27
11	♋	5 13	6 56	13 43	10 57
12	Mo	5 14	6 54	13 40	11 33
13	Tu	5 15	6 53	13 38	morn
14	We	5 16	6 52	13 36	0 17
15	Th	5 17	6 51	13 34	1 12
16	Fr	5 17	6 49	13 32	2 17
17	Sa	5 18	6 48	13 30	3 31
18	♋	5 19	6 47	13 28	rises
19	Mo	5 20	6 46	13 26	7 51
20	Tu	5 21	6 44	13 23	8 23
21	We	5 22	6 43	13 21	8 53
22	Th	5 23	6 41	13 18	9 21
23	Fr	5 24	6 40	13 16	9 49
24	Sa	5 25	6 39	13 14	10 20
25	♋	5 26	6 37	13 11	10 54
26	Mo	5 26	6 36	13 10	11 34
27	Tu	5 27	6 34	13 7	morn
28	We	5 28	6 33	13 5	0 19
29	Th	5 29	6 32	13 3	1 9
30	Fr	5 30	6 30	13 0	2 4
31	Sa	5 30	6 29	12 59	3 2

HIGH TIDES::JULY.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	9 24s	9 42	17	10 17s	8 23†
2	10 28s	9 20†	18	11 27s	9 27†
3	11 29s	9 56†	19	0 23s†	10 24†
4	0 22s†	10 19†	20	1 9s†	11 21†
5	1 13s†	10 59†	21		1 52s
6	1 59s†	11 39†	22	0 18†	2 31s
7		2 37s	23	1 17†	3 8s
8	0 21†	3 55s	24	2 18†	3 49s
9	1 8†	3 22s	25	3 25†	4 34s
10	2 1†	3 51s	26	4 20s	5 27†
11	3 2†	4 26s	27	5 45s	6 8†
12	4 8†	5 4s	28	6 58s	6 46†
13	5 25s	5 35†	29	8 13s	7 24†
14	6 33s	6 7†	30	9 24s	8 0†
15	7 49s	6 49†	31	10 32s	8 39†
16	9 5s	7 39†			

HIGH TIDES::AUGUST.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	11 33s	9 21†	17	0 13s†	10 25†
2	0 21s†	10 0†	18	0 54s†	11 20†
3	0 58s†	10 41†	19		1 27s
4	1 29s†	11 30†	20	0 13†	1 59s
5		2 4s	21	1 9†	2 37s
6	0 16†	2 6s	22	2 13s	2 51†
7	1 3†	2 27s	23	3 9s	3 27†
8	1 52†	2 48s	24	4 17s	4 9†
9	2 46†	3 14s	25	5 35s	4 53†
10	3 43s	3 53†	26	6 53s	5 39†
11	4 56s	4 30†	27	8 5s	6 25†
12	6 13s	5 13†	28	9 19s	7 21†
13	7 32s	6 6†	29	10 21s	8 14†
14	8 54s	7 0†	30	11 12s	9 6†
15	10 17s	8 17†	31	11 54s	9 52†
16	11 21s	9 23†			

ALMANAC FOR 1872.

September.

MOON'S PHASES.

New Moon, 2d. 4h. 43m. A.
First Quarter, 10d. 5h. 53m. M.
Full Moon, 16d. 8h. 54m. A.
Last Quarter, 24d. 5h. 11m. M.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	♎	5 31	6 27	12 56	4 1
2	Mo	5 32	6 26	12 54	5 1
3	Tu	5 33	6 24	12 51	sets
4	We	5 34	6 23	12 49	7 39
5	Th	5 34	6 21	12 47	8 3
6	Fr	5 35	6 20	12 45	8 29
7	Sa	5 36	6 18	12 42	8 58
8	♎	5 37	6 16	12 39	9 32
9	Mo	5 38	6 15	12 37	10 12
10	Tu	5 38	6 13	12 35	11 2
11	We	5 39	6 12	12 33	morn
12	Th	5 40	6 10	12 30	0 2
13	Fr	5 41	6 8	12 27	1 10
14	Sa	5 42	6 7	12 25	2 24
15	♎	5 42	6 5	12 23	3 40
16	Mo	5 43	6 4	12 21	4 55
17	Tu	5 44	6 2	12 18	rises
18	We	5 45	6 1	12 16	7 17
19	Th	5 46	5 59	12 13	7 46
20	Fr	5 47	5 58	12 11	8 16
21	Sa	5 48	5 56	12 8	8 50
22	♎	5 49	5 55	12 6	9 29
23	Mo	5 50	5 53	12 3	10 12
24	Tu	5 51	5 52	12 1	11 1
25	We	5 51	5 50	11 59	11 54
26	Th	5 52	5 49	11 57	morn
27	Fr	5 53	5 47	11 54	0 51
28	Sa	5 54	5 45	11 51	1 50
29	♎	5 55	5 44	11 49	2 51
30	Mo	5 56	5 42	11 46	3 53
..	....	....	....	....	....

October.

MOON'S PHASES.

New Moon, 2d. 7h. 20m. M.
First Quarter, 9d. 0h. 53m. A.
Full Moon, 16d. 7h. 24m. M.
Last Quarter, 24d. 0h. 43m. M.
New Moon, 31d. 9h. 18m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Tu	5 57	5 41	11 44	4 54
2	We	5 58	5 39	11 41	5 54
3	Th	5 59	5 38	11 39	sets
4	Fr	6 0	5 36	11 36	7 1
5	Sa	6 0	5 35	11 35	7 33
6	♎	6 1	5 33	11 32	8 11
7	Mo	6 2	5 32	11 30	8 57
8	Tu	6 3	5 31	11 28	9 52
9	We	6 4	5 29	11 25	10 55
10	Th	6 5	5 28	11 23	morn
11	Fr	6 6	5 26	11 20	0 5
12	Sa	6 7	5 25	11 18	1 20
13	♎	6 8	5 24	11 16	2 34
14	Mo	6 9	5 22	11 13	3 46
15	Tu	6 10	5 21	11 11	4 57
16	We	6 11	5 19	11 8	rises
17	Th	6 12	5 18	11 6	6 13
18	Fr	6 13	5 17	11 4	6 46
19	Sa	6 14	5 15	11 1	7 21
20	♎	6 15	5 14	10 59	8 4
21	Mo	6 16	5 12	10 56	8 51
22	Tu	6 17	5 11	10 54	9 43
23	We	6 18	5 10	10 52	10 40
24	Th	6 19	5 9	10 50	11 39
25	Fr	6 20	5 7	10 47	morn
26	Sa	6 21	5 6	10 45	0 39
27	♎	6 22	5 5	10 43	1 39
28	Mo	6 23	5 4	10 41	2 39
29	Tu	6 24	5 3	10 39	3 40
30	We	6 25	5 2	10 37	4 42
31	Th	6 26	5 1	10 35	5 46

HIGH TIDES::SEPTEMBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 26a†	10 37	17		0 39a
2	0 51a†	11 25	18	0 15	1 5a
3	1 5a		19	0 51a	1 38
4	0 13	1 9a	20	1 56a	2 21
5	1 0	1 28a	21	2 52a	2 30
6	1 42a	1 52	22	3 56a	3 11
7	2 36a	2 10	23	5 11a	4 21
8	3 40a	2 40	24	6 28a	4 53
9	4 57a	3 31	25	7 47a	5 51
10	6 19a	4 25	26	8 51a	6 52
11	7 43a	5 43	27	9 50a	7 53
12	8 59a	7 1	28	10 41a	8 45
13	10 10a	8 22	29	11 19a	9 34
14	11 5a	9 31	30	11 48a	10 22
15	11 49a	10 35			
16	0 22a†	10 32			

HIGH TIDES::OCTOBER.

D	Morn'g	Even'g	D	Morn'g	Even'g
1	0 12a†	11 6	17	0 29a	0 14
2	0 30a†	11 57	18	1 4a	0 36
3		1 11	19	2 2a	0 59
4	0 38a	0 48	20	2 59a	1 29
5	1 31a	1 5	21	3 55a	2 8
6	2 28a	1 28	22	5 2a	3 10
7	3 34a	2 8	23	6 10a	4 17
8	4 50a	2 56	24	7 15a	5 23
9	6 20a	4 20	25	8 11a	6 27
10	7 40a	5 42	26	9 1a	7 31
11	8 51a	7 3	27	9 45a	8 31
12	9 55a	8 21	28	10 21a	9 25
13	10 44a	9 30	29	10 49a	10 17
14	11 20a	10 30	30	11 31	10 58a
15	11 48a	11 24	31	11 40	11 48a
16		0 11a			

ALMANAC FOR 1872.

November.

MOON'S PHASES.

First Quarter, 7d. 7h. 41m. A.
Full Moon, 14d. 8h. 58m. A.
Last Quarter, 22d. 9h. 35m. A.
New Moon, 30d. 10h. 24m. M

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	Fr	6 27	5 0	10 33	sets
2	Sa	6 28	4 59	10 31	6 8
3	♋	6 29	4 58	10 29	6 53
4	Mo	6 30	4 57	10 27	7 46
5	Tu	6 31	4 56	10 25	8 48
6	We	6 32	4 55	10 23	9 57
7	Th	6 33	4 54	10 21	11 11
8	Fr	6 34	4 53	10 19	morn
9	Sa	6 36	4 53	10 17	0 22
10	♋	6 37	4 52	10 15	1 34
11	Mo	6 38	4 51	10 13	2 43
12	Tu	6 39	4 50	10 11	3 51
13	We	6 40	4 49	10 9	4 57
14	Th	6 41	4 48	10 7	6 4
15	Fr	6 42	4 48	10 6	rises
16	Sa	6 43	4 47	10 4	5 57
17	♋	6 44	4 46	10 2	6 43
18	Mo	6 45	4 46	10 1	7 33
19	Tu	6 46	4 45	9 59	8 28
20	We	6 47	4 45	9 58	9 26
21	Th	6 48	4 44	9 56	10 25
22	Fr	6 49	4 44	9 55	11 25
23	Sa	6 50	4 43	9 53	morn
24	♋	6 51	4 43	9 52	0 24
25	Mo	6 52	4 42	9 50	1 24
26	Tu	6 53	4 42	9 49	2 25
27	We	6 54	4 42	9 48	3 27
28	Th	6 55	4 42	9 47	4 32
29	Fr	6 56	4 41	9 45	5 40
30	Sa	6 57	4 41	9 44	6 52

December.

MOON'S PHASES.

First Quarter, 7d. 3h. 26m. M.
Full Moon, 14d. 1h. 34m. A.
Last Quarter, 22d. 6h. 1m. A.
New Moon, 29d. 10h. 26m. A.

D of M	D of W	Sun Rises h m	Sun Sets h m	Days' Length h m	Moon R & S h m
1	♋	6 58	4 41	9 43	sets
2	Mo	6 59	4 41	9 42	6 37
3	Tu	7 0	4 41	9 41	7 46
4	We	7 1	4 41	9 40	9 0
5	Th	7 2	4 41	9 39	10 13
6	Fr	7 3	4 41	9 38	11 26
7	Sa	7 4	4 41	9 37	morn
8	♋	7 5	4 41	9 36	0 35
9	Mo	7 5	4 42	9 36	1 42
10	Tu	7 6	4 42	9 36	2 48
11	We	7 7	4 42	9 35	3 53
12	Th	7 8	4 43	9 35	4 59
13	Fr	7 8	4 43	9 35	6 2
14	Sa	7 9	4 43	9 34	7 5
15	♋	7 9	4 44	9 34	rises
16	Mo	7 10	4 44	9 34	6 17
17	Tu	7 11	4 44	9 33	7 16
18	We	7 11	4 45	9 33	8 15
19	Th	7 12	4 45	9 33	9 15
20	Fr	7 12	4 46	9 33	10 14
21	Sa	7 13	4 46	9 33	11 12
22	♋	7 13	4 47	9 34	morn
23	Mo	7 14	4 47	9 34	0 11
24	Tu	7 14	4 48	9 34	1 11
25	We	7 14	4 48	9 34	2 12
26	Th	7 15	4 49	9 34	3 18
27	Fr	7 15	4 50	9 35	4 28
28	Sa	7 15	4 50	9 35	5 39
29	♋	7 16	4 51	9 35	6 49
30	Mo	7 16	4 51	9 35	sets
31	Tu	7 16	4 52	9 36	6 39

HIGH TIDES :: NOVEMBER.

D	Morn'g	Even'g
1	11 58*l*	
2	0 47*a*	11 47*l**
3	1 45*a*	0 19*l*
4	2 44*a*	0 50*l*
5	3 50*a*	1 50*l*
6	5 4*a*	3 6*l*
7	6 17*a*	4 29*l*
8	7 27*a*	5 53*l*
9	8 26*a*	7 12*l*
10	9 18*a*	8 28*l*
11	9 59*a*	9 35*l*
12	10 39*a*	10 34*l*
13	11 16*a*	11 28*l*
14	11 25*l*	
15	0 15*a*	11 45*l**
16	1 11*a*	11 54*l**
17	1 54*a*	0 22*l*
18	2 48*a*	0 51*l*
19	3 45*a*	1 37*l*
20	4 37*a*	2 35*l*
21	5 23*a*	3 44*l*
22	6 32*a*	4 49*l*
23	7 23*a*	5 52*l*
24	8 6*a*	6 55*l*
25	8 45*a*	7 59*l*
26	9 13*l*	9 6*a*
27	9 48*l*	10 4*a*
28	10 14*l*	11 3*a*
29	10 37*l*	
30	0 0*a*	10 34*l**

HIGH TIDES :: DECEMBER.

D	Morn'g	Even'g
1	0 53*a*	10 59*l**
2	1 58*a*	11 58*l**
3	2 52*a*	0 54*l*
4	3 45*a*	1 57*l*
5	4 47*a*	3 13*l*
6	5 53*a*	4 39*l*
7	6 51*a*	6 1*l*
8	7 38*a*	7 14*l*
9	8 23*a*	8 27*l*
10	9 1*a*	9 33*l*
11	9 42*l*	10 32*a*
12	10 9*l*	11 35*a*
13	10 30*l*	
14	0 30*a*	10 51*l**
15	1 17*a*	11 7*l**
16	2 1*a*	11 46*l**
17	2 46*a*	0 29*l*
18	3 27*a*	1 16*l*
19	4 4*a*	2 10*l*
20	4 44*a*	3 15*l*
21	5 29*a*	4 22*l*
22	6 12*a*	5 27*l*
23	6 51*a*	6 31*l*
24	7 45*l*	7 29*a*
25	8 11*l*	8 38*a*
26	8 43*l*	9 47*a*
27	9 21*l*	10 53*a*
28	9 53*l*	11 54*a*
29	10 28*l*	
30	0 55*a*	10 55*l**
31	1 52*a*	11 54*l**

Devils Dream.
Money Musk.
Rory O's More.
Tempest.
~~Hot~~ Or Knot.
Soleiro Joy.
Chorus Jig.
Celebrated Opera Reel.
Pop Goes the Weasel.
Rockets Hornpipe.
Liverpool "
Dunaway "
Gravy Worth water.
Rishi Hornpipe.
Flowers of Edinburg.
Flagless Favorite.
St Patrick day Morning.
Irish Wash woman.
White Cockade.
Sarry O'Gaff.
Forest of Dodeli.
Chrysthal Schottische.
National "
Rockets "

TUESDAY, JANUARY 2, 1872.

Prima Donna Walt
A Life on the Ascendant
Elfin Walt.
Bobbie Soldier Boy
Yankee Doodle
Finis Jig
Spring of Stillaleigh
Kate Henry Walt.
Buya Broome " "
Hungarian " "
Swiss " "
Polly Hopkins " "
Copenhagen " "
38 Steam Boat " "

10,21
4,88½
11,64
13,82
8,01
61,56½

THURSDAY, JANUARY 4, 1872.

Jan 3d, 1879
Mack. Carrick had
1 ton of Carrots $4.

~~To Mr Emerson~~
~~1 load of Squash~~
~~and 8 Boards of beets~~
~~$16.00~~

SATURDAY, JANUARY 6, 1872.

SUNDAY, JANUARY 7, 1872.

The Swede commenced work 16th. Jan. 1879

Samuel S. Allen.
James M. Gile.
Horace Greeley.
Ben. Butler.
U. S. Grant.

SUNDAY, FEBRUARY 4, 1872.

For a/c of S. P. Harvey
Delivered to Ah For
1 Chicken, which he
said, was due him for
washing, said Chicken
to Cancell a/c . . 75¢

MONDAY, FEBRUARY 5, 1872.

TUESDAY, FEBRUARY 6, 1872.

FRIDAY, FEBRUARY 9, 1872.

Draining the land in various places in front field.
Went to Alvarado to get some pumping stone.

SATURDAY, FEBRUARY 10, 1872.

Hauled to landing 16 box apples to be shipped to Fisk and Slicer _____.
Ploughed several furrows in front field, expect to bet off water.

Weather, dull, wind light, S.E. with indications of rain.
7 o clock P.M. weather cloudy, wind North west raining quietly.
10 o clock P.M. Weather dull and heavy wind N.W. raining quite steady, with no signs of a cessation.

Went over to G. Lowrie after Mother. She being there to attend to Hattie in her sickness. Weather cloudy, wind West.

7 O clock P.M. Commenced raining with wind fresh from West. Saw Hattie's baby which is said to weigh 7 lbs. 30 minutes past 7 experienced a shock of earth quake which seemed to be from North towards the south, and which is the most severe of the season.

Draining land in front field.
Called at Mr Campbells.
Went to town got some spindles that came by express, which are for the old buggy, they cost (express charges included) $1.25.
Went over to G Sowries to take Laura over to attend to Hattie, saw Mack, said he was going to see J Sowrie.
Returned by way of Buchanan's found road very bad and almost impassible.
Weather clear, and wind West with some indications of rain.
76 clock. Very beautiful evening. Stars shine of bright and bids fair for good weather.

TUESDAY, FEBRUARY 13, 1872.

Wrote a letter to Frank
and went to Alvarado.
to hear the trial between
John Ralph and Mr Sowell
but was disappointed as
as it was postponed
to the 14th inst.
was questioned as to the
locality of Montana.
Arizona and the
general prospect at-
tending to warrant an
investment in Con-
nection with a Skating
rink.
Sawed wood remainder
of the day.
Mack came over in
the evening.
Weather cloudy. wind
west.
Saw Alice Scott, but
had no conversation
with him.

WEDNESDAY, FEBRUARY 14, 1872.

Draining land with spade and with Horses very wet and disagreeable ploughed 3 furrows.
Sawing wood and doing sundry things after noon.
I received no paper to day could not ascertain the cause.
Weather cloudy, wind West with indications of rain, although in order to insure a rain it would be necessary to have a strong wind from "S.E." that being the general course to bring on rain.

Draining land a part of
the Gov. noon.
Went over Mc Lurricke
then he and I went
down to Andersons
landing got a boat
and went to the
Island to see his
Colts, which were
in no fine condition
having stand out dur-
ing the winter, saw
Anderson and was
shown his buggy
which was separated by
Min, very bad looking
Weather cloudy wind
west with strong
indications of rain. At
10 O clock P.M. com-
menced raining very
steady which lasts at
intervals

FRIDAY, FEBRUARY 16, 1872.

Cutting wood at the door & a part of the fore noon.
Went to town for the Mail, saw Mr Akerman had a conversation in connection with the Alabama Claims.
Saw Johny Hall on the road said he was sick of the work he was at and that he should not follow it much longer.
Weather raining wind S.E. with indications of a long storm.
Received a Valentine from "St".
Went over to Campbells for a turkey.

SATURDAY, FEBRUARY 17, 1872.

Went out in the field and helped Father clear away from the fences in the fire room and went to Union City. Fire some boxes. Got the 2 pinches sent for and they answer the purpose in size and shape.
Went over Hattie and got Laura and Flora.
Weather cloudy with slight showers. Wind N.W.

The Lord's day is one of universal praise which should be held fast by those not wishing to ad tunc servant, and which should be looked upon as the Holy Gift of him who made all things to his own liking a day of rest and general praise.

Went over to see Carr's artician well, was surprised to see it under such high pressure of water there being an additional attached to it of about 4 feet and yet the water still raises one foot above that.

MONDAY, FEBRUARY 19, 1872.

Went to town and got some track made for the buggy seat which cost 5 o'clock down 12 doz eggs ~~[illegible]~~ 2 [illegible] received $3 B5 for.
Got Lewis a pair of Boots but they prove to small necessitated their return.
Saw a man who works for Mr Emily, who had got hurt some what by a horse.
The balance of the day was clearing away from the fences.
Weather clear, and apparently settled. Wind west.

TUESDAY, FEBRUARY 20, 1872.

This day was occupied in clearing away collected matter from the fences and righting up fences. Dame Mr Whalden who stated that he should let his Baker place remain, and go to Dollentree and make hay of it. He also stated he was in no hurry to commence ploughing &c. Weather cloudy with indications of rain. Wind West the greater part of the day, when later in the day changed to S.E. Received a letter from Sarah.

WEDNESDAY, FEBRUARY 21, 1872.

Went to Union City to see Captain Barrow in connection with Apple Box. After noon wrote 2 letters one to George and the other to Sarah took them to Grother with another letter which contained $9.00 in Greenbacks to the P.O. and also a paper to Silvester. Bought a bottle of Gin, and a bottle of pain killer some writing paper.

Saw Mr Akerman, who said he was in favor of all young men joining the I.O.O.F. lodge and who stated that I ought to join.

Weather cloudy. Wind strong S.E.

Commenced rainily about 6 O clock P.M.

THURSDAY, FEBRUARY 22, 1872.

This day, the anniversary of the birth of our Father, was spent in digging ditches and Mark to Lowe to get some tea, took a letter to the office directed to Robert Thompson. Another flood similar to that of the previous ones has at last visited us. Saw several teams which were going to the Ball at Washington College. Weather, cloudy in the morning, which finely disappeared towards noon. Wind strong, West, and sky once more clear towards evening.

FRIDAY, FEBRUARY 23, 1872.

This day was spent in various pursuits. Prospecting the fields in places to see if they were in any suitable condition to plough. Found that could not plough, as (it) the ground could not bear animals. Went over to Campbells and from there to town to get the mail. Received a letter from Aunt Anna. Mack was over in the evening and stopped all night. Weather cloudy and presents every indication of rain. Later in the afternoon commenced rainy with a strong S E wind. Went to Cantrivell after sundry things.

Went to town for the Mail, received a letter directed to Mathers had some Conversation with Smith and Davis Concerning the present state of the roads and how they should be Constructed to prevent overflowing in times of high water.

Was down by the Creek to see the state of waters as stands at present occasioned by recent rains.

Weather cloudy, and raining most the time during the day.

Roads very flooded in many places.

Bought 500 worth Postage Stamps.

SUNDAY, FEBRUARY 25, 1872.

This day went over to Hattie's. to see the Baby and have a social chatt with George &c. retained a brief sketch of of Mrs Handy &c her past man agement.
Wind S.E. weather Cloudy and raining slightly.

MONDAY, FEBRUARY 26, 1872.

Went to town to get the Mail, and to take down some letters &c.
draining land after my return which was not an easy job an account of its unusual wet state at this time of year.
Saw Grate a Gathering of people at town which were witnessing the performance of a Horse Back rider &c.
Wrote a letter to Lt. Bartlett and one to Lt Thompson.
received one from Pat H.
Wind west with indications of fair weather.
Sky clear.
Went to Union City to see the Captain about how many boxes were brought up from the city.

TUESDAY, FEBRUARY 27, 1872.

This day was spent in various ways.
Went over to see Cures artesian well which was a boiling at a great rate sending water up 4 feet above the ground.
Weather cloudy, and wind S.E. with indications of rain, which later did come late in the day, and which came at a fearfull rate causing an overflow, and making the land very wet.
Wrote two letters, one to Uncle Silvester and one to Nat.

WEDNESDAY, FEBRUARY 28, 1872.

I went to town after having ditched in various places.
The Bridge this side of town is wasted away and the Old Man Campbell got in to it.
Weather clear, with indications of fair weather.

THURSDAY, FEBRUARY 29, 1872.

Commenced ditching in the buck field, with the intention of making a ditch through to Ralph's line fence.

Afternoon sawed wood and did various other small items of no special mention except that it might go to prove the amount of work performed during the absence of Uncle. Weather cloudy, with indication of rain, Wind N.W.

FRIDAY, MARCH 1, 1872.

This day was spent in various way, which will not make much when summed up together as there was not much of any kind of work performed

Sawed wood, and did the chores.

Weather cloudy with a slight rain,

MONDAY, MARCH 4, 1872.

Went to Union City to take 12 Bus Apples, and to ship them to the City. After noon Hauled down to J. McKeon's Black Smith Shop 20 Sks Barley to be ground in to fuel.
Weather cloudy, wind West most of the day. When late in the day it changed to S.E. and from which course there seems to be some signs of rain.

TUESDAY, MARCH 5, 1872.

This day went to Alvarado,
with one load of Barley
to be ground,
Sold 1 Q.K. to Smithers
for $1.50,
Weather Cloudy and
rainy, wind S.E.

WEDNESDAY, MARCH 6, 1872.

Went out in the back field removing collected matter from the fences.
And after noon went to town to get the Mail, and to see about the feed Barley being really.
After returning went out and dictated in various places.
Evening went to Mrs — McCormicks, and had a splendid time in dancing &c accompanied by George Whitelaw.
Weather clear, with prospect of fair and drying at sunset fire.

THURSDAY, MARCH 7, 1872.

This day was spent in various ways.
Dicthing in fore noon, and afternoon commenced ploughing the water standing in the furrows.
Worked one team 1/2 day about.
Weather cloudy with indications of rain.
Wind West.

SATURDAY, MARCH 9, 1872.

Up looking so much like rain did not plough but went to Lowri and got a load of feed for Horses.
Weather dull and show signs of rain
Wind West.

SUNDAY, MARCH 10, 1872.

This day was spent in various ways to memories to mention and none of which would require special mention.
Weather cloudy and rainy.

Went to Alvarado
to get the Mail and
see how the spirit
moves in the general
majority of the people
as regards the
Weather.
Also went to Union
City to see about
some Drugs &c.
Weather Cloudy and
raining.

Harvey Oct 7th

To M. Currick

to drawing of

grain 3/4 day.

Oct 9

drawing of grain

1/2 day.

Sept 22nd. 1872.

To Joe the Portuguese
Harvey to
pasturing 3
Horses.

Thursday Oct - 3d 1872
Charles Sumner
To Harvey Dr
pasturing 1 Horse

SATURDAY, MARCH 16, 1872.

SUNDAY, MARCH 17, 1872.

WEDNESDAY, MARCH 20, 1872.

THURSDAY, MARCH 21, 1872.

FRIDAY, MARCH 22, 1872.

Sold 2 furtes
Potatoes to Chinamen
@ 40¢

SATURDAY, MARCH 23, 1872.

July 18 Hail M—
Carricks Reaper
and 24 he took
it away.

SUNDAY, MARCH 24, 1872.

MONDAY, MARCH 25, 1872.

TUESDAY, MARCH 26, 1872.

Bought 8 Bales Hay
@ 2.00 per Bale.
drawn out here by
M. Garrick.

M Garrick Commenced Plowing for us this day with one team.

SATURDAY, MARCH 30, 1872.

SUNDAY, MARCH 31, 1872.

MONDAY, APRIL 1, 1872.

TUESDAY, APRIL 2, 1872.

Duncan Campbell
communicant worked
with us

16
12
32
6
15) 192 (13
15
42
45

16
15
80
6
12) 240
20

12
15
61
12
12) 180
70

FRIDAY, APRIL 5, 1872.

J Martin Com-
menced work with
us. with one team.
Commencing at noon
to plough.

SATURDAY, APRIL 6, 1872.

Mr Kerrick was away to day, and Duncan took his team to Hurstow.

SUNDAY, APRIL 7, 1872.

TUESDAY, APRIL 9, 1872.

WEDNESDAY, APRIL 10, 1872.

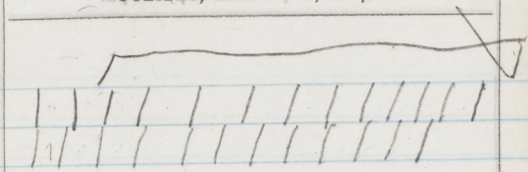
THURSDAY, APRIL 11, 1872.

FRIDAY, APRIL 12, 1872.

SATURDAY, APRIL 13, 1872.

SUNDAY, APRIL 14, 1872.

TUESDAY, APRIL 16, 1872.



WEDNESDAY, APRIL 17, 1872.

THURSDAY, APRIL 18, 1872.

FRIDAY, APRIL 19, 1872.

SATURDAY, APRIL 20, 1872.

SUNDAY, APRIL 21, 1872.

MONDAY, APRIL 22, 1872.

WEDNESDAY, APRIL 24, 1872.

FRIDAY, APRIL 26, 1872.

SATURDAY, APRIL 27, 1872.

SUNDAY, APRIL 28, 1872.

TUESDAY, APRIL 30, 1872.

WEDNESDAY, MAY 1, 1872.

THURSDAY, MAY 2, 1872.

FRIDAY, MAY 3, 1872.

SATURDAY, MAY 4, 1872.

400
9
5) 3600 (

22) 3600 (163
22
140
132
80
66

27,5) 3600 (120
275
750
550
2000

$$\begin{array}{r} 4000 \\ 55 \\ \hline 20000 \\ 20000 \\ \hline 220000 \end{array}$$

$$\begin{array}{r|l} 160 & 220 \\ & 160 \\ \hline & 60 \end{array} \quad 1$$

5.5) 4000 (72
385
150
110
40

72 40/100

65,40

30,25) 360000 (11

3025

5750

3025

2725

5.5) 36000 (65.48
330
300
275
250
220
30

) 65.40 (

SUNDAY, MAY 12, 1872.

MONDAY, MAY 13, 1872.

TUESDAY, MAY 14, 1872.

THURSDAY, MAY 16, 1872.

FRIDAY, MAY 17, 1872.

SATURDAY, MAY 18, 1872.

John Carlson
to Cash
July 4th 1874
$4.50

MONDAY, MAY 20, 1874

John Carlson
Commenced
Work for Harvey
May 20 th 1874

8 / 12 (1
8

12 / 80 (6
72
8

12 / 85 (7
84
1 8

8 / 12 (

17
8.50
85-0

136
14.45-0

12
8½
96
6
102

FRIDAY, MAY 24, 1872.

SATURDAY, MAY 25, 1872.

SUNDAY, MAY 26, 1872.

MONDAY, MAY 27, 1872.

TUESDAY, MAY 28, 1872.

WEDNESDAY, MAY 29, 1872.

THURSDAY, MAY 30, 1872.

FRIDAY, MAY 31, 1872.

SATURDAY, JUNE 1, 1872.

SUNDAY, JUNE 2, 1872.

MONDAY, JUNE 3, 1872.

TUESDAY, JUNE 4, 1872.

WEDNESDAY, JUNE 5, 1872.

1878

Malcom Carrick
Commenced work
for S. P. Harvey
April 2nd. with two
horses

" " 1
3d. " " 1
4th 1
5th 1
6 1
7 1
8 1
9 1
10 1
11 1
12 1
13 1/2
19 1
21 1
22 2
23 3
24 4
25 5
26 6
27 7
28 8
29 9
30 10

Sloten sent a man
and 4 horses.
Commenced work
the afternoon of
the 8 of April - 1872
Worked 9 of April
" 10 " "
" 11 " "
" 12 " "
13 "
11 half day 17 "
Man, 1 day 19 team
21
22
23
24
25
26
27
~~[illegible]~~
29
30

1
1
1
1
1
1
1
1
1
1
1
1/2

Peter Campbell 62-
by one man and 2
horses the 9th of
April afternoon-
and worked half 1/2
day the 10 of April 1
all day 11 " " 1
" 12 " " 1
" 13 " " 1
21 1
22 1
May 6 1
7 1
8 1
9 1
10 1
11 1

1878

Emerson Sent 2 men
and 4 horses,
commenced work
the 10th of April - 1
" 11 " " 1
" 12 " " 1
" 13 " " 1
hoffday 17 " " 1/2

19 1
21 1
22 1
23 1
24 1
25 1
1 team and man left 26 team 1
27 one team 1
29 " " 1
30 " " 1
May 2nd " " 1
" 3 1
4 1
6 1
7 1
8 1

THURSDAY, JUNE 13, 1872.

SATURDAY, JUNE 15, 1872.

SUNDAY, JUNE 16, 1872.

THURSDAY, JUNE 20, 1872.

SATURDAY, JUNE 22, 1872.

SUNDAY, JUNE 23, 1872.

George Williams

Commenced
Work for Harvey
June 24 1874

George Williams

to cash			
July	4	$5	00
"	16	25	00
Aug	29	20	00
Nov	3 to cash	20	
"	7 to bings		50
Dec			
Nov	25 to cash	20	00
January	1 to cash	$ 5	00
" "	21 to cash	20	00
		1	00
1	knife	1	25
			75
1	"		
	Socks	1	00
July	5	20	00
		139	50
Sept	3 Paid	290	50
	3	$429	00

September 3. 1875

George Williams

Commenced

Work for Harvey

FRIDAY, JUNE 28, 1872.

Dec 24 th 1875
George Williams

24 to Cash
" " 1876 $20 00
April 8 to cash
8 60 00
July 8 to Cash 20 00
taxes 2 00
Socks 50
Sept 23 to cash 20 00
Stockins 1 00
1876 40
3 cash tax 4 00
$40 00

1877
Pole tax 2 00
to Cash 10 00
July 4 5 00
Socks 1 00
Nov 5 Cash 20 00
" 30 " 40 00
Dec 00 00
20

275,90

SUNDAY, JUNE 30, 1872.

January 14 1876

Mc Carrick
to Paid 8 Sks corn
14 lbs 5.33
Mc Carrick 1877
to Cash $53.00

TUESDAY, JULY 2, 1872.

WEDNESDAY, JULY 3, 1872.

Mc Carrick

~~February~~

Dec Paid 1875
to Cash $36 00

FRIDAY, JULY 5, 1872.

SATURDAY, JULY 6, 1872.

SUNDAY, JULY 4, 1872. 1876

Peter By Woske
Feb 5 th
5 by 11 Days Worke
$11.00

MONDAY, JULY 8, 1872.

TUESDAY, JULY 9, 1872.

1878

WEDNESDAY, JULY 10, 1872.

Green Harvey

to Cash	$10
to "	10
to Boots	5
" "	5
to Cash	20

Gen. Harvey

May 3th 1877

Cash $1.83

SATURDAY, JULY 13, 1872.

March 24. 1875

24 to Cash $20.00

MONDAY JULY 15, 1872

March 4 1875

George Williams

Commenced Work

Tos Harvey

TUESDAY, JULY 16, 1872.

THURSDAY, JULY 18, 1872.

March 22 1872
passey bolt

March 22 1878
fancy colt

MONDAY, JULY 22, 1872.

TUESDAY, JULY 23, 1872.

THURSDAY, JULY 25, 1872.

FRIDAY, JULY 26, 1872.

SATURDAY, JULY 27, 1872.

Sol-Browning
Chord 29

A Life on the Ocean
Wave.
Spring of Shillaleigh
Tempest.

Hob or Knob.
Pop goes the Weasle
Clearly over the water

Rochester Schottische

Irish washer woman
White Cockade.
On the road to
Ruston.

Rickets Hornpipe
Liverpool Hornpipe
Durango Hornpipe.

St Patricks day
in the morning
Forest of Bondi

WEDNESDAY, JULY 31, 1872.

SUNDAY, SEPTEMBER 22, 1872.

S. P. Harvey in a/c
1873
Mch 28 To Rollee '12
" 29 " " 1

with the Commissioners

day

TUESDAY, SEPTEMBER 24, 1872.

S. P. Harvey in a/c

Mch	26	"	1	Harv
"	27	"	1	"
"	28	"	1	"
"	29	"	1	"

WEDNESDAY, SEPTEMBER 25, 1872.

with Montrose
1 Deep.
" "
" "
" "

THURSDAY, SEPTEMBER 26, 1872.

S. R. Harvey in acct
Mch 24 To 17 Jour 18
" 25 " 1 " "
" 26 " 1 " "
" 27 " 1 " "
" 28 " 1 " "
" 29 " 1 " "

with Montrose
Lesson 1 day
" 1 " "
" 1 "
" 1 "
" 1 "
" 1 "

For M. Pennock

SATURDAY, SEPTEMBER 28, 1872.

S P Harvey in ap-

1873

Mch 21 To 1 fences

" 22 " 1 "

" 24 " 1 "

" 25 " 1 "

" 26 " 1 "

For S P Harvey

SUNDAY, SEPTEMBER 29, 1872.

with J. Lowrie,

Horse team 1 day.

" " 1 "

" " 1 "

" " 1 "

" " 1 "

J. P. Harvey in a/c with
1873
Mch 14 To Duncan and
" " " M Currick
" 15 " " "
" " " Duncan
" 17 " M Currick
" " " Duncan
" 18 " "
" " " M Currick
" 19 " "
" " " Duncan
" 20 " "
" " " M Currick

M Carrick.

2	Horses	1	day
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1	"
2	"	1/2	"
2	"	1/2	"

S. P. Harvey in a/c

1873

March	18	To	2	Mos
"	19	"	2	"
"	20	"	2	"
"	21	"	2	"
"	22	"	2	"
"	24	"	2	"
"	25	"	2	"
"	[illegible]	"	2	"

with L. W. Morrison,

and 4 Horses 1 day

" 4 " 1 "

" 4 " 1 "

" 4 " 1 "

" 4 " 1 "

" 4 " 1 "

" 4 " 1 "

" 5 " 1 "

S P Harvey in a[illegible]

1873

Mch	21	To	1	Hors[illegible]
"	22	"	1	"
"	24	"	1	"
"	25	"	1	"
"	26	"	1	"
"	27	"	1	"
"	28	"	1	"
"	29	"	1	"

with M. Carroll

½ day plowing

S. P. Harvey in a/o

1873

Mch	20	to	1/2	days	work
"	21	"	1	"	"
"	22	"	1	"	"
"	24	"	1	"	"
"	25	"	1	"	"
"	26	"	1	"	"
"	27	"	1	"	"
"	28	"	1	"	"
"	29	"	1	"	"

MONDAY, OCTOBER 7, 1872.

with Mr. Fairlund.

S. R. Harvey in a/c
1873

Mch	22	To J. Ercy	4	"
"	24	" J. Ercy	4	"
"	25	" " "	4	"
"	26	" " "	4	"
"	27	" " "	4	"

WEDNESDAY, OCTOBER 9, 1872.

with Whipple.

[illegible] 1 day for M. C.
" 1 " for S. P. H.
" 1 " " " "
" 1 " " " "
" 1 " " " "

1873

Commenced sowing Barley on the 19th March in Buck Field.

3=) 331 (110
5-) 331 (110
5=
5=) 542 (105
5-
42
10
2

12768
1175-4
7938
11846
865-0

5-21) 5-496-6 (105-
5-2 613
285-6
260 5-
25-1

5-5-5-69

SUNDAY, OCTOBER 13, 1872.

5 = 5·36
5 = 5·34
5 = 5·32
5 = 5·21
5 = 5·19
5 = 5·23
5 = 5·32
5 = 5·22
5 = 5·22
5 = 5·19
5 = 5·11
5 = 5·11
5 = 5·06
5 = 5·21
5 = 5·17
5 = 5·08
5 = 5·02
5 = 5·05
5 = 5·05
5 = 4·91
5 = 5·02
5 = 5·04
5 = 5·00
11846
1 = 105
11951

5 = 5·05
5 = 4·95
5 = 5·14
5 = 5·16
5 = 5·30
5 = 5·26
5 = 5·33
5 = 5·06
5 = 5·06
5 = 5·02
5 = 5·19
5 = 5·55
5 = 5·53
5 = 5·14
5 = 5·19
5 = 5·16
3 = 3·16
8650
5 = 5·08
9158
1 = 105
9263

17) 8650 (508
85
150

3
5
515
6
521

99
89
49
48
48
323

490
37
453

9263
11951
9938
11754
5-27) 12768 (
55674 (105
5-27
2974
2635
339

Petes Commence
Work for Hazen
October 18 1878

TUESDAY, OCTOBER 22, 1872.

October 7-8 1873
Rain Smarte

SUNDAY, OCTOBER 27, 1872.

TUESDAY, OCTOBER 29, 1872.

SATURDAY, NOVEMBER 2, 1872.

SUNDAY, NOVEMBER 3, 1872.

MONDAY, NOVEMBER 4, 1872.

FRIDAY, NOVEMBER 8, 1872.

SATURDAY, NOVEMBER 9, 1872.

MONDAY, NOVEMBER 11, 1872.

TUESDAY, NOVEMBER 12, 1872.

THURSDAY, NOVEMBER 14, 1872.

SUNDAY, NOVEMBER 17, 1872.

TUESDAY, NOVEMBER 19, 1872.

FRIDAY, NOVEMBER 22, 1872.

SUNDAY, NOVEMBER 24, 1872.

MONDAY, NOVEMBER 25, 1872.

TUESDAY, NOVEMBER 26, 1872.

WEDNESDAY, NOVEMBER 27, 1872.

THURSDAY, NOVEMBER 28, 1872.

FRIDAY, NOVEMBER 29, 1872.

SATURDAY, NOVEMBER 30, 1872.

SUNDAY, DECEMBER 1, 1872.

MONDAY, DECEMBER 2, 1872.

TUESDAY, DECEMBER 3, 1872.

1400
1,30
42000
400
182000

1068
100
32040
1068
136840

THURSDAY, DECEMBER 5, 1872.

FRIDAY, DECEMBER 6, 1872.

SATURDAY, DECEMBER 7, 1872.

SUNDAY, DECEMBER 8, 1872.

TUESDAY, DECEMBER 10, 1872.

Went over to Hulls in Company with Mc to see about his barby.

THURSDAY, DECEMBER 12, 1872.

FRIDAY, DECEMBER 13, 1872.

SATURDAY, DECEMBER 14, 1872.

SUNDAY, DECEMBER 15, 1872.

2

2

THURSDAY, DECEMBER 19, 1872.

FRIDAY, DECEMBER 20, 1872.

Brown Sugar 1.00
Soap 1 Box
Cream Tartar 1 ft
Cold Sugar Pail full
Coffee Whole, 1.00

16
12
32
6
12) 192
17
4
28 16
3
12) 48
4

MONDAY, DECEMBER 23, 1872.

SATURDAY, DECEMBER 28, 1872.

- ✓ 4 Cans Lard
- ✓ 1 Bucket B. Sugar
- ✓ Ginger
- ✓ Cloves Ground
- ✓ Cinnamon
- ✓ Nutmegs
- ✓ Lemon Juice
- ✓ Butter
- Salt Fish

March 28

Sold to Portuguese
6 Sks Potatoes @ 40 c

1.15
.9
10.35

Team Account.

M Barrick with 1 team.
Friday 29 March.
Duncan Campbell with
1 team Wednesday
April 3.
J Murkin with 1 team
Friday April 5.

MEMORANDA.

Chinaman ½ day washing
wortë in orchärd.

CASH ACCOUNT. JANUARY.

Date.		Received.		Paid.
	From B. P. H	6	00	
April 12	" " " "	6	00	
"	" " " "	5	00	
June 1	" Father			
	1 pr Boots	7	50	
" 14		10	00	
June 30	" Father	20	00	
July 4	" G. H. Harvey	20	00	
Aug 19	" " " "	20	00	
Sep 11	" " " "	120		

CASH ACCOUNT. JANUARY.

Date.		Received.		Paid.	

481
105-
2405-
481
5-05-05-

CASH ACCOUNT. FEBRUARY.

Date.		Received.	Paid.
10	For a/c Book		1 0
14	For Envelopes		2
"	" Cigars		3
"	" Postage Stamps		

CASH ACCOUNT. FEBRUARY.

Date.		Received.		Paid.	

CASH ACCOUNT. MARCH.

Date.		Received.		Paid	

CASH ACCOUNT. MARCH.

Date.		Received.		Paid.	

CASH ACCOUNT. APRIL.

Date.		Received.		Paid.	

CASH ACCOUNT. APRIL.

Date.		Received.		Paid.	

CASH ACCOUNT. MAY.

Date.		Received.	Paid.

CASH ACCOUNT. MAY.

Date.		Received.		Paid.	

CASH ACCOUNT. JUNE.

Date.		Received.		Paid.	

CASH ACCOUNT. JUNE.

Date.		Received.		Paid.	

CASH ACCOUNT. JULY.

Date.		Received.		Paid.	

CASH ACCOUNT. JULY.

Date.		Received.	Paid.
	Bonus due		
	Mr Frost		
	B.P. Harvey		
	Chisel	1 0	
	Salmon	7	
	Sugar	2 0	
	Suet	1 0	
	Envelopes	3	
	Staff	2	
	Starch		6

CASH ACCOUNT. AUGUST.

Date.		Received.	Paid.

CASH ACCOUNT. AUGUST.

Date.		Received.	Paid.
Jan 1	B. R. Henry	20 00	
Apl 6	" " "	40 00	

CASH ACCOUNT. SEPTEMBER.

Date.		Received.	Paid.

CASH ACCOUNT. SEPTEMBER.

Date.		Received.	Paid.
	Pictures Glass		
	3 in number.		
	2 ft 2 in ½ in length		
	21 in in width.		
	Cheval for same.		
	33		
	27		

CASH ACCOUNT. OCTOBER.

Date.		Received.	Paid.

CASH ACCOUNT. OCTOBER.

Date.		Received.		Paid.	

CASH ACCOUNT. NOVEMBER.

Date.		Received.	Paid.

James Taylor.
Brohaskey Stable
San Jose.

Wheat Bran
Linseed Meal.

CASH ACCOUNT. NOVEMBER.

Date.		Received.		Paid.	
	S. P. Harvey	7	50		
Dec	" " "		75		
20	" " "	18	50		
26	D. Campbell	20	00		
Feb					
Mar 26	S. P. Harvey	1	50		

6

11 5 7 5

Fred Beasley

5 = 518

5 = 503

5 = 507

1528

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid.
	~~Maple Stick~~		
	~~18 x 5 inches~~		
	Maple piece 18 inches long by 5 inches square.		
	Maple for roolers 4 in number 18 inches in length and 1 3/4 diameter		
	Linseed Meal.		

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid.
	6 5-		
	17 5-		
	32 5-		
	47 5-		
	6 5-		
	11 5-7 5-		
	Fuel Bursary		
	5- = 5-18		
	5- = 5-03		
	5- = 5-07		
	15-28		

SUMMARY OF CASH ACCOUNT.

		Received.	Paid.
JAN.			
FEB.			
MAR.			
APR.			
MAY.			
JUNE.			
JULY.			
AUG.	Hail 37 Sks		
SEPT.	Ground at Whipples		
OCT.			
NOV.			
DEC.			

MEMORANDA.

Date		Dollars.	Cts.
Mch 4	Burley to J McKeene to the Ground		
	Total figures		
	1 = 102		
	1 = 97		
	1 = 97		
	1 = 105		
	1 = 109		
	1 = 102		
	1 = 98		
	1 = 113		
	1 = 100		
	1 = 98		
	1021		
	1 = 111		
	1 = 101		
	1 = 104		
	1 = 97		
	1 = 98		
	1 = 106		
	1 = 105		
	1 = 100		
	1 = 99		
	1 = 113		
	Total 1034	total	2055

MEMORANDA.

Date.		Dollars.	Cts.
	Amt Forward		
	20 Sacks	2055	
	5 "	515	
	5 "	516	
		3086	

There was 260 Sks in Ware House when we came here

There was 4 1/2 Sks or 2 Bbls Flour when we came here part of a Key of Syrup.

MEMORANDA.

Date.		Dollars.	Cts.
	126 SKs Seed Barly in Ware House		
	37 SKs Barly ground at Whipply		
	39 SKs to J McBeaver for to grind		
	5-15th Barly to be ground,		
	30 5th Barly to be ground		
	24 5th Barly to be ground.		
	1065		

MEMORANDA.

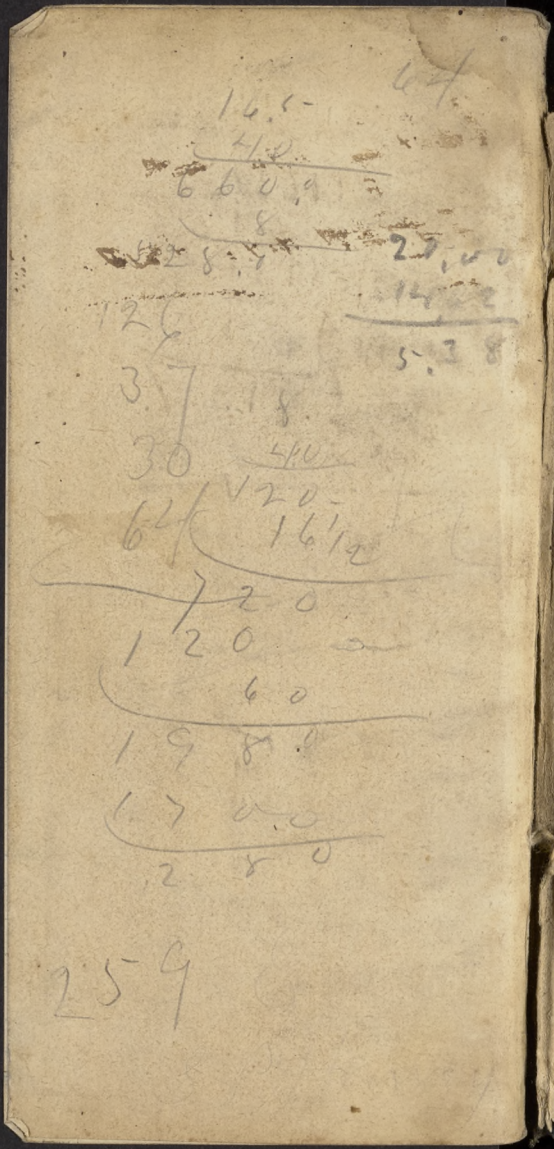
Date.		Dollars.	Cts.
	A Life on the Ocean Wave		
	Spring of Shillaleigh.		
	Tempest		
	Crystal Schottisch		
	Kate Kearney Waltz		
	Hob or Knob.		
	Pop goes the weasle		
	Charly over the water		
	Rochester Schottisch		
	Irish Wash woman		
	White Cockade		
	On the road to Boston.		

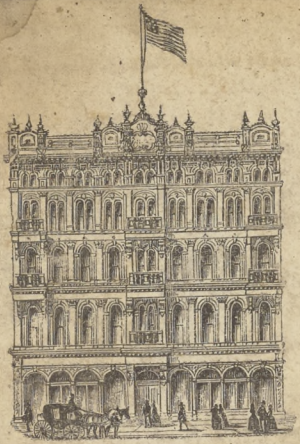
MEMORANDA.

Date.	Dollars.	Cts.
	20	45
	37	32
	29	32
	87	09
	54	26
	32	83

MEMORANDA.

Date.		Dollars.	C
	14,62 10,35- 24,97		
	6 1/2		
	2,25- 6		
	2,25- 6,50		
	2,25- 6,5- 11,25- 135-0 14,625-		





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IX. Stationery.
X. Periodicals.
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